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42PES0001D/H



EN	LCD television	IT	Televisore LCD
DE	LCD-Fernsehgerät	ES	Televisor LCD
FR	Téléviseur LCD	PT	Televisor LCD
NL	LCD televisie	EL	Τηλεόρασης LCD

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The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

Warranty

No components are user-serviceable. Never open or remove covers and never insert objects in the ventilation slots or insert objects not suitable for the specific connectors. Repairs may only be done by Philips Service Centres and official repairshops. Failure to do so shall void any warranty, stated or implied.
Any operation expressly prohibited in this manual, any adjustments, or assembly procedures not recommended or authorised in this manual shall void the warranty.

Pixel characteristics

This LCD product has a high number of colour pixels. Although it has effective pixels of 99,999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Open source software

This television contains open source software. Philips hereby offers to deliver or make available, upon request, for a charge no more than the cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code on a medium customarily used for software interchange.
This offer is valid for a period of 3 years after the date of purchase of this product.
To obtain the source code, write to Philips Innovative Applications N.V.
Ass. to the Development Manager
Pathoekeweg 11
B-8000 Brugge
Belgium

Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
Philips is committed to develop, produce and market products that cause no adverse health effects.
Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Mains fuse (UK only)

This TV is fitted with an approved moulded plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the **same value as indicated** on the plug (example **10A**).
1. Remove fuse cover and fuse.
2. The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, contact your dealer in order to verify the correct type.
3. Refit the fuse cover.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be detached from the mains cord.

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1 Important

Read this user manual before you start to use this product.

Pay attention to this section and closely follow the instructions. The warranty does not apply to damage caused by not taking into account the instructions.

1.1 Safety

- To avoid short circuit, never expose the product to rain or water.
- To avoid a risk of fire or electric shock never place naked flame sources (e.g. lighted candles) close to the TV.
- Leave a space of at least 10 cm (4 inches) from the rear and the top of the Essence Connectivity hub and 5 cm (2 inches) from the left and right for ventilation.
- Keep away from radiators or other heat sources.
- Never place the Essence Connectivity hub on top of or underneath other devices that might heat up (for ex. a receiver or an amplifier). Never put anything under the TV hub.
- Install the TV hub near a wall socket where the mains plug can be easily reached.
- To prevent damage, never insert any object into the ventilation slots.
- Make sure the TV cannot fall down. Place the TV on a solid and flat surface and only use the stand provided with the TV.
- To prevent damaging the mains cord, never place the TV, or anything else, on the cord. Damage the cord may cause a fire or electric shock.
- When mounted on a swivel stand or wall bracket avoid force coming on the mains plugs. Mains plugs that are partly loosened can cause arcing or fire.

1.2 Care of the screen

- Disconnect the TV from the mains before cleaning.
- Clean the surface of the TV screen with a soft damp cloth. When a damp cloth is insufficient, use a special LCD screen cleaner. Never apply any other substance (chemical or household cleaning agent). This may damage the screen.
- Never touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.
- Stationary images
 Avoid stationary images as much as possible. If you cannot, reduce screen contrast and brightness to prevent damage to the screen. Stationary images are images that remain on the screen for a long time. Examples of stationary images are: on screen menus, teletext pages, black bars, stock market information, TV channel logos, time displays, and so on.

1.3 Recycling

- Take the packaging to your local recycling centre.
- Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European directive 2002/96/EC.
 Never dispose of your product with other household waste. Please inform yourself about the local rules on separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences for the environment and human health.
 Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences for the environment and human health.

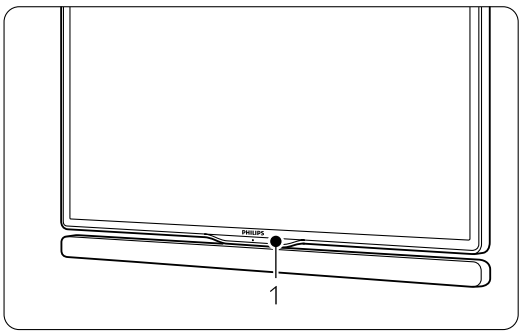


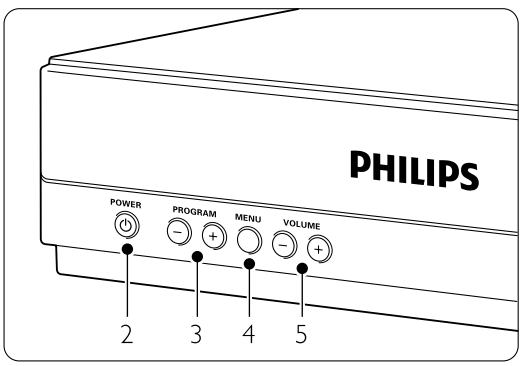
2 Your TV

This section gives you an overview of the controls and functions of this TV.

2.1 Television overview

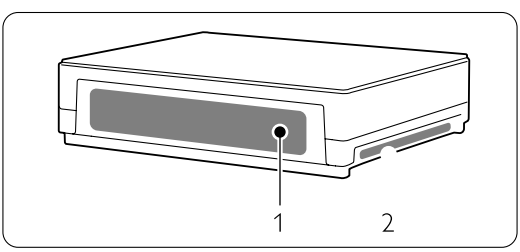
Controls





1 Remote control sensor
2 Power switch
3 Program/Channel up and down
4 Menu
5 Volume up and down

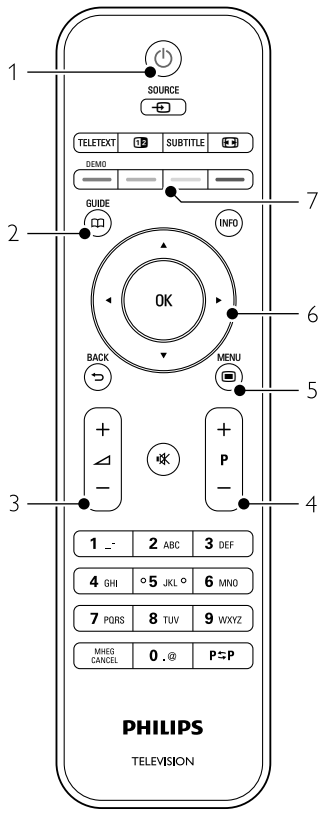
Connectors



1 Back connectors
2 Left side connectors

For more info see section **7 Connections**.

Remote control



1 Switch On or switch to Standby
2 Programme guide
3 Volume up + or down −
4 Program/Channel up + and down −
5 Menu On or Off
6 Navigation and Rotary key
7 Colour keys

For more info see section **5.1 Remote control overview**.

2.2 How to enjoy HD TV ?

HD

This TV can display High Definition TV programmes. But to enjoy HD TV you need to get programmes in HD first. The picture quality of this TV without HD programmes is just normal TV.

You can receive HD programmes from ...
- a Blu-ray Disc player, connected to HDMI, with a HD Movie
- a digital HD receiver, connected to HDMI, with a subscription to HD channels from a Cable or Satellite company
- an Over-the-air HD broadcaster (DVB-T MPEG4)
- a HD channel on your DVB-C network
- a Game console (Xbox 360 / PlayStation 3), connected to HDMI, with a HD game.

Contact your dealer for more information. Go to www.philips.com/support FAQ's to find the list of HD channels or providers in your country.

2.3 Product highlights

Your new TV is equipped with some of the most modern audio or video innovations.
Your TV offers the following advantages ...

Full High Definition LCD display
A full HD resolution of 1920x1080p, the highest resolution of HD sources. It offers a brilliant flicker-free progressive scan picture with optimum brightness and superb colours.

DVB-T and DVB-C integrated tuner
Next to normal analogue TV broadcast your TV receives digital terrestrial and in certain countries also digital cable TV and radio broadcasts.

Electronic Programme Guide - EPG
The EPG shows the scheduled digital TV programmes on screen. The guide can remind you when programmes start, switch the TV on, etc.

USB connection / PC network connection
Multimedia connection for instantly view or play your photos or music.

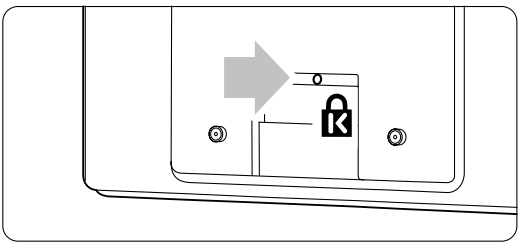
3 Get started

This section helps you with the positioning and the first time installation of the TV.

3.1 Position the TV screen

Carefully read the safety precautions in section **1.1 Safety** before you position the TV.

- Large screen TVs are heavy. Carry and handle the TV screen with at least two persons.
- The ideal distance from which to watch TV is three times its diagonal screen size.
- Position the TV screen where light does not fall directly on the screen.
- Your TV screen is equipped with a Kensington Security Slot for an anti-theft lock (not supplied).



3.2 Position the Essence Connectivity hub

Carefully read the safety precautions in section **1.1 Safety** before you position the Connectivity hub.

- Always place the TV hub in a horizontal position.
- Never install the TV hub in a closed space or cupboard.
- Be aware the top side can become quite hot.

3.3 Mount the speaker bar

You can mount the supplied attachable speaker bar to the TV screen. See the supplied Start booklet. You can also download this booklet from www.philips.com/support.

3.4 Wall mounting

You can wall mount the TV screen with the supplied wall mount bracket.
How to mount the TV screen, see the supplied Start booklet. You can also download this booklet from www.philips.com/support.

3.4.1 Mount the wall mount bracket

Caution

Wall mounting the TV requires special skills that should only be performed by qualified personnel. Wall mounting the TV should meet safety standards according to the TV's weight.

Koninklijke Philips Electronics N.V. bears no responsibility for improper mounting or mounting that results in accident or injury.

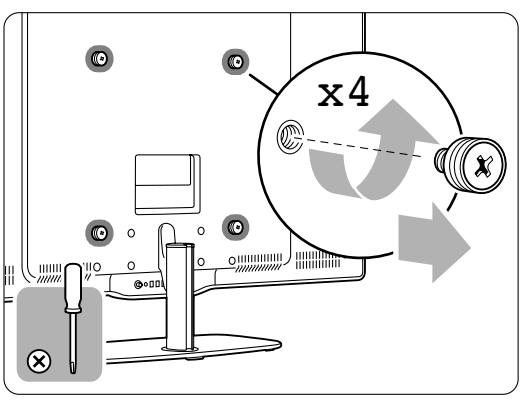
Read also the safety precautions in section **1.1 Safety** before you position the TV.

3.4.2 VESA compliant wallmounting

The TV is prepared for VESA compliant wall mounting. This bracket is not included.
Use a VESA compliant bracket with code VESA MIS-F, 300, 300, 8.

Prepare for VESA wallmounting

1. Locate the four fixation points at the back of the TV.
2. Should the plastic discs obstruct the VESA bracket, you can unscrew these 4 discs.



3.4.3 Unmount the TV stand

The TV stand should be unmounted from the TV screen to allow the TV screen to be wall mounted.

3.4.4 Mount the TV screen to the wall

How to mount the TV screen to the wall, see the supplied Start booklet. You can also download this booklet from www.philips.com/support.

3.5 Lower the TV stand

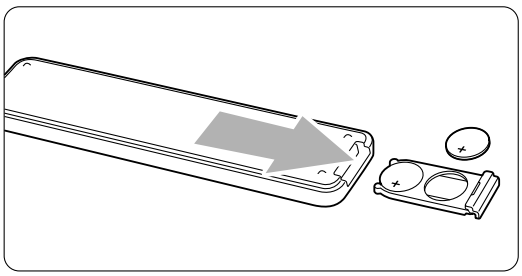
You can lower the TV screen on the stand when you do not mount the attachable speaker bar.
See the supplied Start booklet. You can also download this booklet from www.philips.com/support.

3.6 Remote control batteries

Caution

This product contains lithium batteries. There is danger of explosion if the batteries are incorrectly replaced. Replace only with the same or equivalent type.

1. Open the battery cover on the back of the remote control.
2. Make sure the + and sides of the batteries line up correctly (inside of case is marked.)
3. Close the cover.

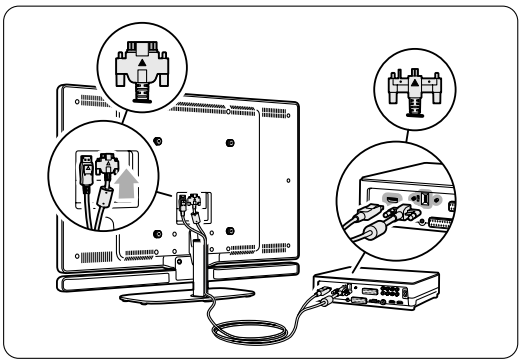


Note

Remove the batteries if not using the remote control for an extended period of time.

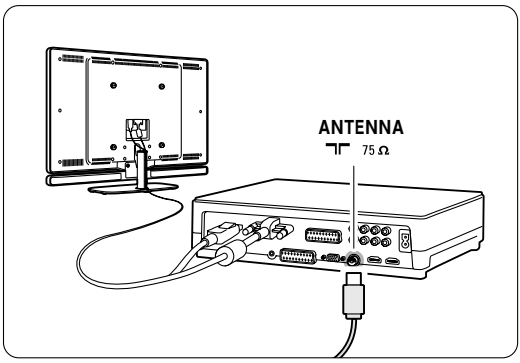
3.7 Single cable between the TV hub and the TV screen

1. Insert the supplied Essence Single cable into the respective connectors at the back of the TV hub and at the back of the TV screen.



3.8 Antenna cable

1. Locate the antenna connection at the back of the TV hub.
2. Insert the antenna cable tightly into the **Antenna** socket.



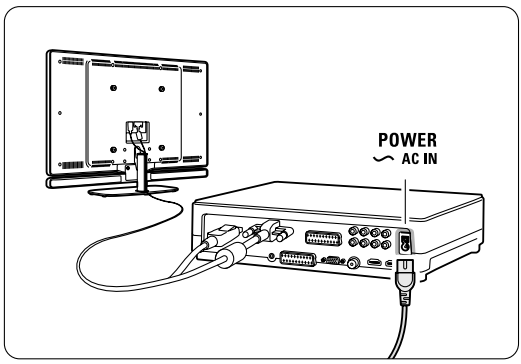
3.9 Power cable

Keep the mains plug at the wall socket accessible at all time.

The TV is never powered off completely and consumes energy unless the mains cord is physically unplugged.

Although this TV has a very low standby power consumption, unplug the mains cord if you do not use the TV for a long time to save energy.

1. Verify that your mains voltage corresponds with the voltage printed on the sticker at the back of the TV hub. Never insert the mains cord if the voltage is different.
2. Insert the mains cord tightly.



4 Use your TV

Learn how to operate your TV for daily use.

4.1 Switch on or off - Standby

Note

The TV may take up to 15 seconds to turn on.

To switch on the TV:

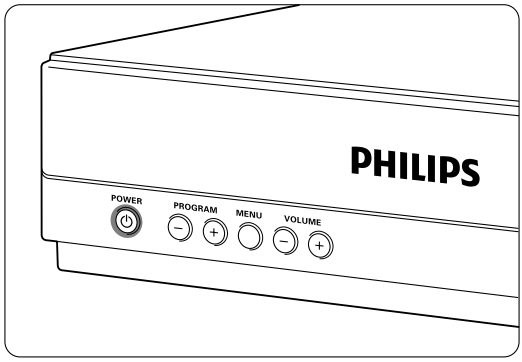
- Press **Power** at the front of the TV hub if the standby indicator is off.
- Press on the remote control if the standby indicator is on.

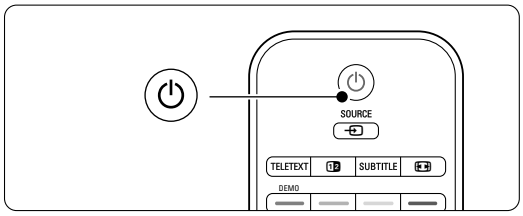
To switch to standby:

- Press on the remote control.

To switch off:

- Press **Power** at the front of the TV hub.

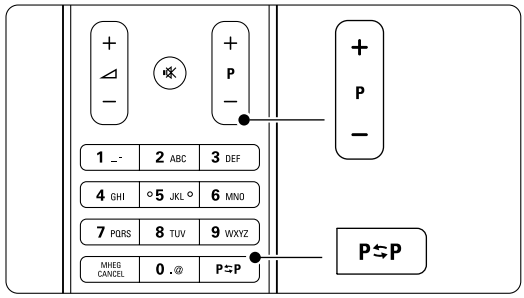




4.2 Watch TV

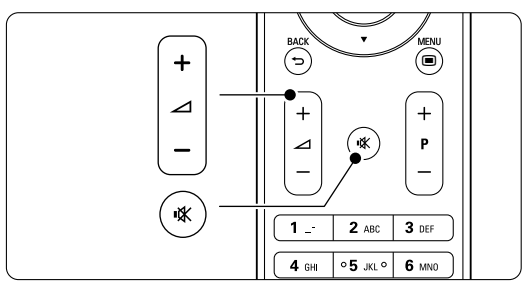
4.2.1 Switch channels

1. To switch TV channels:
 - Press a number (1 to 999) or press **P+** or **P-** on your remote control.
 - Press **Program/Channel -** or **+** on the side controls of the TV hub.
2. Press **P⇆P** to return to the previously viewed TV channel or connected device.



4.2.2 Adjust volume

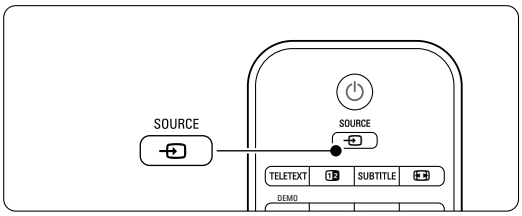
1. To adjust the volume:
 - Press + or - on the remote control
 - Press **Volume** + or - on the side controls of your TV hub.
2. To mute the sound:
 - Press .
 - Press again to restore the sound.



4.3 Watch channels from a digital receiver

1 Switch on the digital receiver.
The picture from your receiver automatically appears on the screen.
2 Use the remote control of your digital receiver to select TV channels.

If the picture does not appear:
1 Press the **Source** key.
2 Press ▲ or ▼ to select where you connected your digital receiver.
3 Press **OK**.



Note
When you did not connect your devices yet, go to section **7 Connections.**

4.4 Watch connected devices

1 Switch on the device.
The picture from your device automatically appears on the screen.

If the picture does not appear:
2 Press the **Source** key.
3 Press ▲ or ▼ to select where you connected your device.
4 Press **OK**.

Note
When you did not connect your devices yet, go to section **7 Connections.**

4.5 Watch a DVD

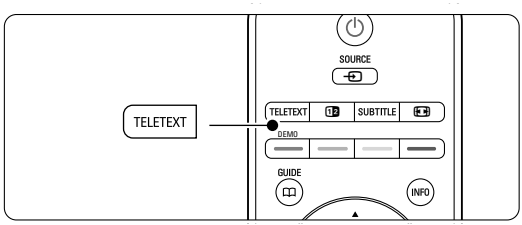
1 Switch on your DVD player.
2 Insert a DVD disc in your player.
The DVD picture automatically appears on the screen.
3 Press **Play** ► on the DVD player.

If the picture does not appear:
1 Press the **Source** key.
2 Press ▲ or ▼ to select where you connected your DVD player.
3 Press **OK**.
Wait a few seconds until the picture appears.
4 Press **Play** ►.

4.6 Select a Teletext page

Most TV channels broadcast information through Teletext.
To watch Teletext:
1 Press **Teletext**.
The main index page appears.
2 To select a page of your choice:
- Enter the page number with the number keys.
- Press **P-** or **P+** or ▲ or ▼ or the ⮌ key to view the next or the previous page.
- Press a colour key to select one of the colour coded items at the bottom of the screen.
- Press **P⇆P** to return to the previously viewed page.

3 Press **Teletext** again to switch Teletext off.



Note
Only for UK: some digital TV channels offer dedicated digital text services (for example BBC1).

For more information on teletext, see section **5.4 Teletext**.

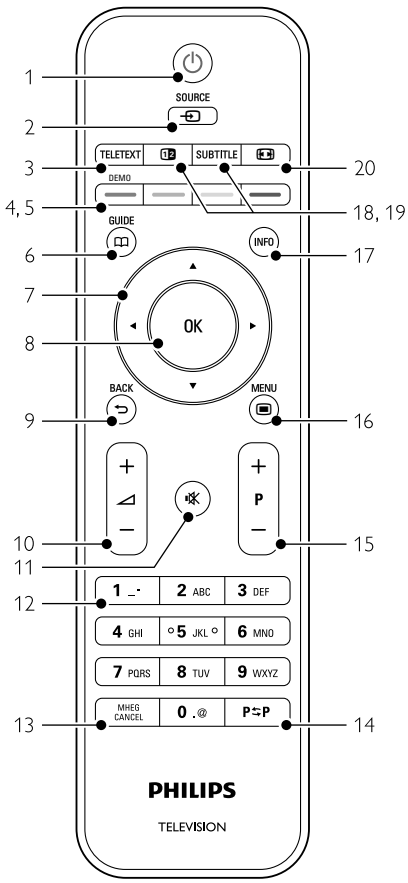
5 Use more of your TV

This section helps you perform advanced TV operations including how to:

- use the menus
- adjust picture and sound settings
- make use of Teletext
- create favourite channel lists
- make advantage of Electronic Programme Guide
- set locks and timers
- set subtitles and select a subtitle language
- view your photos or play your favourite music from a USB memory device or from your PC or Home network.

5.1 Remote control

5.1.1 Remote control overview



1 **Standby** ⏻
To switch the TV on or back to standby.

2 **Source**
- To switch the Source menu on or off.
- To select a connected device or to return to TV.

3 **Teletext**
To switch teletext on or off.

4 **Colour keys**
- Easy selection of teletext pages.
- Easy selection of tasks.

5 **Demo**
To switch the Demo menu on and to get a demonstration of the features of the TV.

6 **Guide**
To switch on or off the Electronic Programme Guide.

7 **Navigation and rotary key**
To navigate (▲, ▼, ◄, ►) or turn left or right to go through lists or settings.

8 **OK**
- To display the channel list.
- To activate a setting.

9 **Back key**
To select the previous programme or the previous TXT page.
To remove the channel list.

10 **Volume**
To adjust the volume.

11 **Mute**
To mute the sound or restore it.

12 **Number keys**
To select a TV channel.

13 **MHEG Cancel** (only for UK)
To cancel only Digital text or Interactive services.

14 **Previous channel P⇆P**
To return to the previously viewed channel.

15 **+P- Channel up or down**
To switch to the next or previous channel in the channel list.

16 **Menu**
To switch the menu on or off.

17 **On screen information INFO**
To show channel or programme information if available.

18 **Dual screen**
To show teletext on the right and the picture on the left of the screen.

19 **Subtitle**
To activate or deactivate the subtitle mode.

20 **Widescreen Picture format**
To select a picture format.

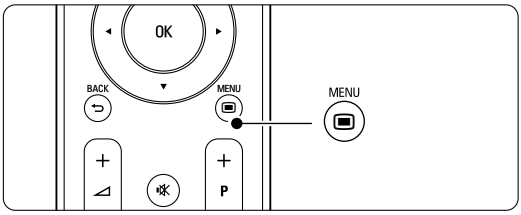
See section **10 Index** to find the section in the manual about a specific remote control key.

5.2 TV menus

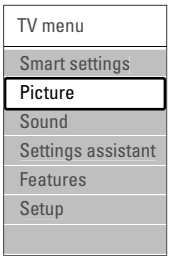
With the on screen menus you install your TV, adjust picture and sound settings and access features. This section gives an overview of the menus and describes how to navigate.

5.2.1 The menu

1 Press **Menu** to show the TV menu.
2 Press **Menu** to quit the TV menu.



The **TV** menu offers the following items:



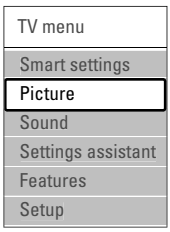
- **Smart settings**
 Select this item to set the TV to one of the predefined settings. Each setting combines picture and sound.
- **Picture**
 Select this menu item to adjust all picture settings.
- **Sound**
 Select this menu item to adjust all sound settings.
- **Settings assistant**
 Use the Settings assistant to guide you through basic picture and sound settings in an easy way.
- **Features**
 Select this item for other feature settings.
- **Setup**
 Select this item
 - for installation and to update the TV software;
 - to use the connection assistant which will help you to connect your devices to the TV hub.

5.2.2 Use of the menu

Learn to use the menus with this example.

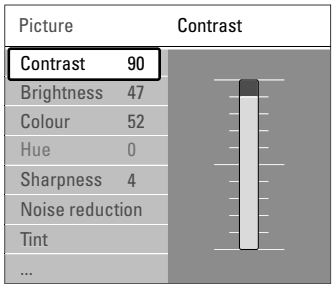
1 Press **Menu** ▭.

The TV menu appears on the screen.

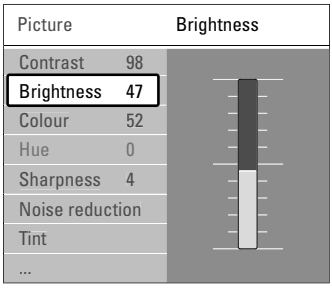


2 Press ▲ or ▼ to select **Picture**.

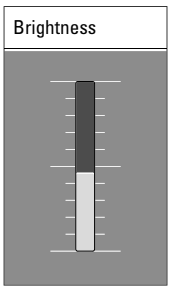
3 Press ► to enter the picture settings.



4 Press ▼ to select **Brightness.**



5 Press ► to enter the brightness setting.



6 Press ▲ or ▼ to adjust the setting.

7 Press ◄ to return to the Picture settings or press **Menu** ▭ to quit the TV menu.

Note:
More choices come available when digital channels are installed and broadcasted.

5.3 Picture and Sound settings

The first time you switched on the TV you have selected your preferred settings for picture and sound. The following sections describe how to modify or read just those settings.

5.3.1 Smart settings

Sets the TV to one of the predefined settings. Each setting combines picture and sound.

1 Press **Menu** ▭ and select **Smart settings**.

2 Press ► to enter the list.

3 Press ▲ or ▼ to select a setting.

4 Press **OK**.

5 Press **Menu** ▭ to quit the TV menu.

Smart settings: Personal, Vivid, Standard, Movie, Energy saving, Game.

5.3.2 Settings assistant

Use the Settings assistant to guide you through basic picture and sound settings in an easy way.

1 Press **Menu**.

2 Select **Settings assistant** and press ► to enter.

3 Press the green key to start the assistant.

4 Press ◄ or ► to select the left or right side to make your choice.

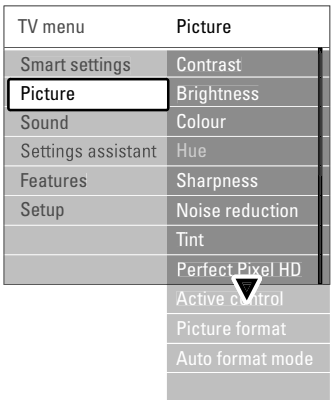
5 Press the green key to go to the next setting. Go through several settings.

6 When finished, press the green key to store all your settings.

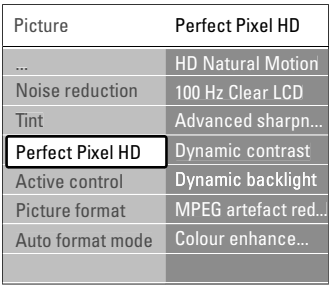
5.3.3 Picture settings

This section describes how to adjust all picture settings individually.

1 Press **Menu** .
2 Select **Picture** and press ▶ to enter the list.
3 Press ▲ or ▼ to select a setting.



- **Contrast**
 Changes the level of bright parts in the picture but keeps the dark parts unchanged.
- **Brightness**
 Changes the level of light of the total picture.
- **Colour**
 Changes the level of saturation.
- **Hue**
 If NTSC is broadcasted, this level compensates the colour variations.
- **Sharpness**
 Changes the level of sharpness of fine details.
- **Noise reduction**
 Filters out and reduces the noise in the picture. Set the level to Minimum, Medium, Maximum or Off.
- **Tint**
 Sets the colours to Normal, Warm (reddish) or Cool (bluish). Select Custom to make a setting of your own in the Custom menu.
 - **Custom**
 Press the green key to select each bar to change the value of:
 - R-WP red whitepoint
 - G-WP green whitepoint
 - B-WP blue whitepoint
 - R-BL red blacklevel
 - G-BL green blacklevel
- **Perfect Pixel HD**
 Controls the advanced settings of the Perfect Pixel HD Engine, resulting in best sharpness, contrast, colour and motion.



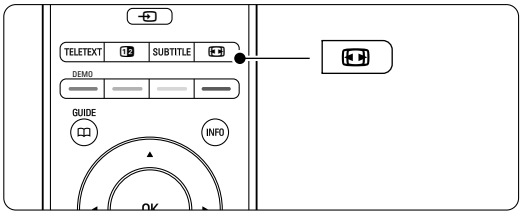
- **HD Natural Motion**
 Removes motion judder and reproduces smooth movement especially in movies.
- **100 Hz Clear LCD**
 Gives a superior motion sharpness, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.
- **Advanced sharpness**
 Enables superior sharpness, especially on lines and contours in the picture.
- **Dynamic contrast**
 Sets the level at which the TV automatically enhances the details in dark, middle and light areas of the picture.
- **Dynamic backlight**
 Sets the level at which power consumption can be reduced by dimming the brightness intensity of the screen.
 Choose for the best power consumption or for the picture with the best brightness intensity.
- **MPEG artefact reduction**
 Smooths the digital transitions in the picture.
- **Colour enhancement**
 Makes the colours more vivid and improves the resolution of details in bright colours

- **Active control**
 Corrects all incoming signals in order to provide the best picture possible.
 Switches Active control on or off.
- **Picture format / Auto format mode**
 See section **5.3.4 Widescreen picture format**.

5.3.4 Widescreen picture format

Avoid black bars on the sides or on top and bottom of the picture. Change the picture format to a format that fills the screen.

1 Press ⊡ to switch on the Picture format menu.



2 Press ▲ or ▼ to select an available picture format.

3 Press **OK**.

4 Press ▲ to shift the picture upwards if subtitles are hidden.

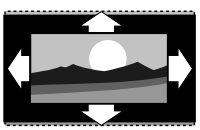
Tip

For minimal distortion, select the Auto format setting.

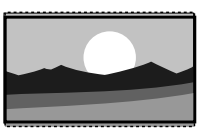
- **Auto format** (Not for PC.)
 Enlarges the picture automatically to fill the screen. Subtitles remain visible. You can set Auto format in two different modes.

1 In the TV menu, select Picture > **Auto format mode**.

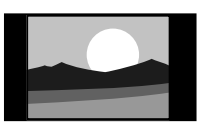
2 Select **Auto-fill** to fill the screen as much as possible. Select **Auto-zoom** to keep the original picture format but black bars may be visible.



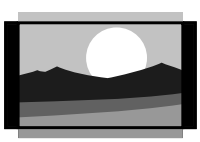
- **Super zoom** (Not for HD.)
 Removes the black bars on the side of 4:3 broadcasts. There is a minimal distortion.



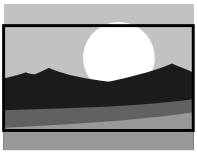
- **4:3** (Not for HD.)
 Shows the classical 4:3 format.



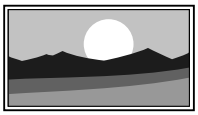
- **Movie expand 14:9**
 (Not for HD.)
 Scales the format to 14:9.



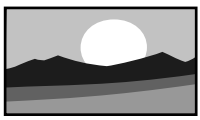
- **Movie expand 16:9**
 (Not for HD.)
 Scales the format to 16:9.



- **Wide screen**
 Stretches the format to 16:9.



- **Unscaled**
 (Only for HD and PC.)
 Maximum sharpness. Distortion may appear on borders. Black bars may appear with pictures from your PC.



Note

Never forget to name the connection in the Connection menu. See section **7.5.1 Naming your devices**.

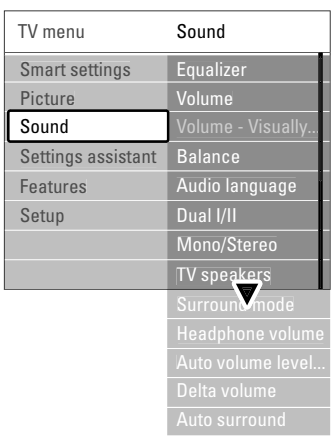
5.3.5 Sound settings

This section describes how to adjust all sound settings.

1 Press **Menu** ☰ and select **Sound**.

2 Press ► to enter the list.

3 Press ▲ or ▼ to select a setting.



- **Equalizer**
 Changes the bass and treble of the sound. Select each bar to change the setting.
- **Volume**
 Changes the volume. When adjusting the volume with ◿ a volume bar appears. If you do not want it to appear go to Menu > Setup > Installation > **Preferences** and press ► to enter the list and select Volume bar off.

- **Volume – Visually impaired** (UK only)
 Changes the volume of the selected Visually impaired audio language in the Setup, Installation menu. See section **6.1 Automatic installation**.
- **Balance**
 Sets the balance of the left and right loudspeakers to fit best your listening position.
- **Audio language**
 A list of audio languages for the current programme may be available when digital channels are installed and broadcasted.
 To permanently change the audio language, see section **6 Channel installation**.
- **Dual I/II**
 If broadcasted, you can choose between two different languages.
- **Mono/stereo**
 If stereo broadcasting is available, you can select Mono or Stereo per TV channel.
- **TV speakers**
 If you have connected an audio system to the TV hub, you can switch off the speaker bar.
 If your audio system supports Easylink, see section **7.2.2 Easylink**.
 Select **Automatic** to have the sound from your TV automatically reproduced by your audio system.
- **Surround mode**
 To select a more spatial sound if broadcasted or if available from a connected device.
- **Headphone volume**
 Changes the volume of the headphone.
 You can mute the speaker bar with 🔇 on the remote control.
- **Auto volume levelling**
 Reduces sudden volume differences like at the beginning of commercials or when switching from one channel to another.
 Select on or off.
- **Delta volume**
 Levels out volume differences between channels or connected devices.

1. Switch to the channel or device you want to level out the volume difference.
2. Select **Delta volume** in the Sound menu and change the volume level.

- **Auto surround**
 Switches the TV automatically to the best surround sound mode dependant on the broadcast.
 Select on or off.

5.4 Teletext

Your TV has a 1200 pages memory that stores broadcasted teletext pages and subpages to reduce waiting time.

To select a teletext page see section **4.6 Select a Teletext page**.

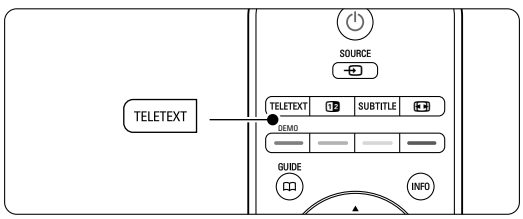
5.4.1 Select a teletext language

Some digital TV broadcasters offer the possibility to select your preferred teletext language. See section **6.1 Automatic installation**.

5.4.2 Select pagenumber subpages

A teletext page number can hold several subpages. The pages are shown on a bar next to the main pagenumber.

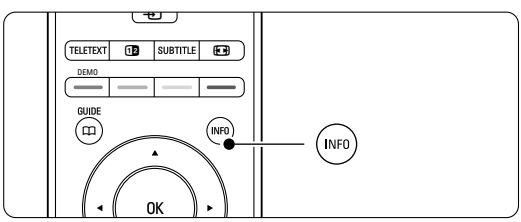
1. Press **Teletext**.
2. Select a teletext page.
3. Press ◄ or ► to select a subpage.



5.4.3 Select T.O.P. teletext broadcasts

T.O.P. teletext (Table of Pages) is not broadcast by all TV channels. You can easily jump from one subject to another without using pagenumbers.

1. Press **Teletext**.
2. Press **INFO**.
 The T.O.P. overview appears.
3. Use ◄ or ►, ▲ or ▼ to select a subject.
4. Press **OK** to view the page.



5.4.4 Dual screen teletext (not available for channels with Digital Text services)

View the TV channel and teletext next to each other.

1. Press 1 2 for Dual screen teletext.
2. Press **Teletext** again to show normal teletext.
3. Press **Teletext** to switch off teletext.

5.4.5 Search teletext

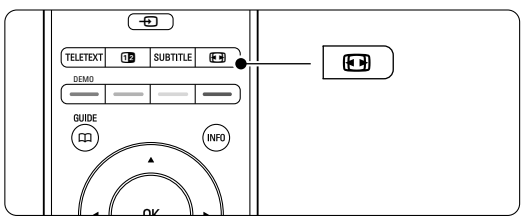
Quickly jump to a subject linked to a series of pagenumbers or search for specific words in teletext pages.

1. Press **Teletext**.
2. Press **OK** to highlight the first word or number.
3. Press ◄ or ►, ▲ or ▼ to jump to the next word or number on the page.
4. Press **OK** to search a page which holds the highlighted word or number.
5. Press ▲ until no word or number is highlighted to quit Search.

5.4.6 Enlarge teletext pages

For a more comfortable reading, you can enlarge the teletext page.

1. Press **Teletext** and select a teletext page.
2. Press ⇔ to enlarge the top part of the page.
3. Press ⇔ again to view the enlarged lower part of the page.
4. Press ▲ or ▼ to scroll through the enlarged page.
5. Press ⇔ again to return to the normal page size.

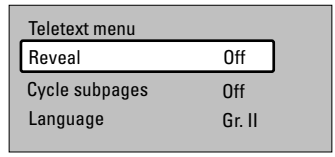


5.4.7 Teletext menu

With the options in the teletext menu you can reveal hidden info, let cycle subpages automatically and change the character setting.

- **Reveal**
 Hide or unhide hidden information on a page, such as solutions to riddles or puzzles.
- **Cycle subpages**
 If subpages are available for the selected page, you can make subpages cycle automatically.
- **Language**
 Some languages use a different set of characters. Switch to the other group to show the text correctly.

1. Press **Teletext**.
2. Press **Menu** ▣.



3. Press ▲ or ▼ to select an option.
4. Press **OK** to change a setting.
5. Press **Menu** ▣ to quit the teletext menu.
6. Press **Teletext** to switch off teletext.

5.4.8 Digital text services (UK only)

Some digital TV broadcasters offer dedicated digital text or interactive services (for example BBC1) on their digital TV channels. These services work as normal Teletext with the number, colour and navigation keys to select and navigate.

1. Press **Teletext**.
2. Press ◄ or ►, ▲ or ▼ to select or highlight items.
3. Press one of the colour keys to select an option.
4. Press **OK** to confirm or activate.
5. Press **MHEG Cancel** to cancel Digital text or interactive services.

Caution

Digital text services are blocked when subtitles are broadcasted and Subtitle On is set in the Features menu. See section **5.8 Subtitles**.

5.4.9 Teletext 2.5

If broadcasted by the TV channel this teletext offers more colours and better graphics.
Teletext 2.5 is switched on as a factory setting.

1. Press **Menu** ▣ on the remote control and select Setup > Installation > Preferences > **Teletext 2.5** and press ► to enter the list.
2. Select on or off.

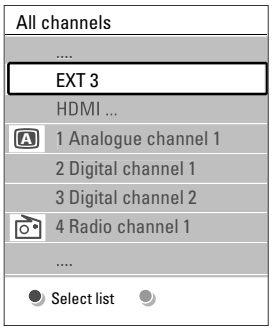
5.5 Create favourite channel lists

View the All channels list or set up a Favourite list of your own with your preferred TV channels and radio stations.

5.5.1 Select a favourite list

You can select one of the favourite channel lists.

1 Press **OK**.
The first time after you have finished the installation, the All channels list is shown. In other situations, it brings up the last selected favourite list.



2 Press the red key to show all favourite lists.
3 Press ▲ or ▼ to select a list.
4 Press **OK**.
The selected favourite list appears.
5 Press **OK** again to quit.

5.5.2 To set up a favourite list

Create or modify your own favourite list.

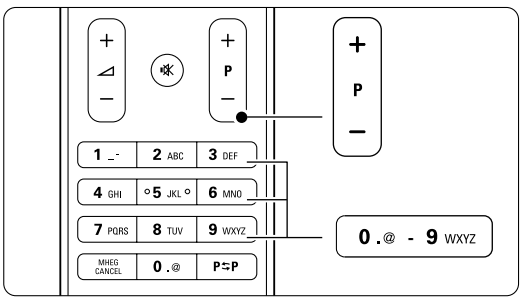
1 Press **OK**.
The last selected list appears.
2 Press the red key to show all favourite lists.
3 Press ▲ or ▼ to select a list.
4 Press **OK**.
5 Press the green key to enter the Edit mode.
The selected list brings up a full channel list.
6 Press ▲ or ▼ to highlight a channel.
7 Press **OK** to mark (or unmark) the highlighted channel. The channel is added to (or removed from) the selected list.
8 Press the green key again to leave the Edit mode.
The modified channel list appears again.

5.5.3 Select a channel from a favourite list

1 Press **OK**.
The last selected channel list appears.
2 Use ▲ or ▼ to highlight a channel.
3 Press **OK**.
The TV tunes to that channel.

Tip

- Use **-P+** to go through the TV channels of the selected favourite list.
- With the number keys you can still select channels which are not marked as favourite.



5.6 Electronic Programme Guide - EPG -

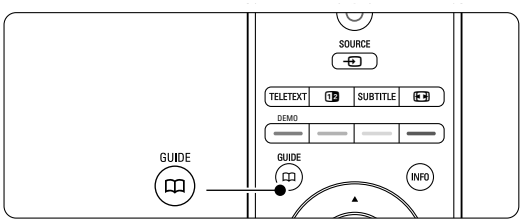
The Electronic Programme guide is an on screen guide to scheduled digital TV programmes.
You can navigate, select and view programmes by time, title or genre. There are two types of EPG, 'Now and Next' and '7 or 8 day' EPG.

When digital channels are installed and broadcasted, EPG is available. **'Now and Next'** is always available but the **'7 or 8 day'** EPG is only available in some countries.

With the EPG menu you can...
- see a list of current broadcasted programmes
- see the next programme
- group programmes by genre
- set reminders when programmes will start
- set up preferred EPG channels
- etc.

5.6.1 Switch on EPG

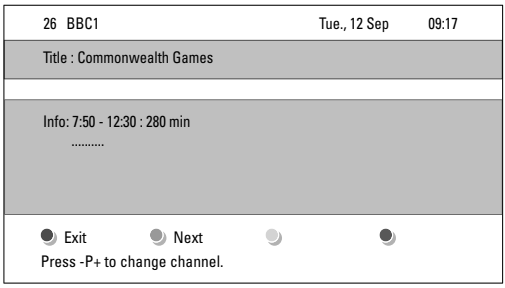
1 Press 🕮.



The following type of EPG appears:

'Now and Next' EPG

Detailed information about the current programme is shown.



Or

'7 or 8 day' EPG

It may take some time to receive the EPG data. The list of TV programmes will show.



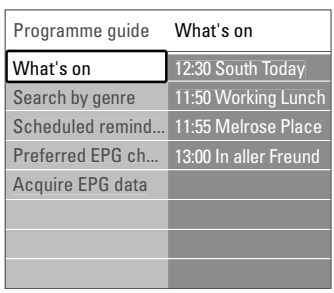
2 Use the colour keys to activate the available actions at the bottom of the screen.
- **Next**: to show information about the next programme.
- **Remind**: to mark or unmark a programme as a reminder.
- **Watch**: to watch or listen to a current programme.
- **Jump to...**: to jump to the next or previous day.
- **Info**: to display information on a selected programme (if available).

3 Press 🕮 to quit the EPG.

5.6.2 More on '7 or 8 day' EPG

Search by genre, scheduled reminders, etc. are managed in the Programme guide menu.

1 Press 🕮 on the remote control.
2 Press **Menu** ▣.
The Programme guide menu appears.



3 Press ▲ or ▼ to select a menu option.
4 Press ▶ to enter.
5 Press ▲ or ▼ to make a selection.
6 Press **OK** to activate or press the green key to watch
7 Press 🕮 to quit the EPG.

Note

Only channels marked as Preferred EPG channels appear in the Programme guide menu.

5.7 Timers and locks

This section describes how to switch the TV on or off at a specified time and to lock or unlock the TV.

5.7.1 Automatically switch to standby

Sleeptimer switches the TV to standby after a time.

1. Press **Menu** on the remote control and select Features > **Sleeptimer** and press ▶ to enter the sleeptimer bar.
2. Press ▲ or ▼ to set the time up to 180 minutes in steps of 5 minutes. If set to 0 minutes, the Sleeptimer is switched off.

You can always switch off your TV earlier or reset the time during countdown.

5.7.2 Automatically switch the TV on

On timer switches the TV on automatically to a specified channel at a specified time, from standby.

1. Press **Menu** on the remote control and select Features > **On timer** and press ▶ to enter the On timer menu.
2. Use ◀ or ▶, ▲ or ▼ to select and enter the menu items one by one to set a channel, a day of the week or daily, and a starting time.
3. Press **OK** to confirm.
4. Press **Menu** to quit the menu.

Tip

To switch off the On timer, select **Off** in the On timer menu.

5.7.3 Lock TV channels and programmes

Lock TV channels and/or programmes from connected devices to prevent children from watching them. Lock and unlock with a four number code.

Set or change your code

1. Press **Menu** on the remote control and select Features > **Set or Change code** and press ▶ to enter your code.
2. Enter your code with the number keys. The **Features** menu reappears with a message confirming that your code has been created or changed.

Did you forget your code ?

1. Select **Change code**.
2. Press ▶.
3. Enter the overriding code 8-8-8-8.
4. Enter a new personal code.
5. Confirm your new entered code. The previous code is erased and the new code is stored.

5.7.4 Activate or deactivate Child lock

Set your code and you can:

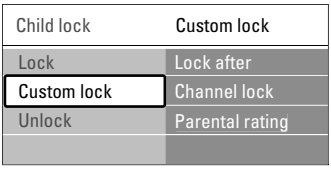
- Lock all channels and devices,
- Lock specific channels and devices,
- Set a time after which all channels and devices are locked,
- Set the maximum allowed parental rating for digital channels that are installed and broadcast.

1. Press **Menu**.
2. Select Features > **Child lock** and press ▶.
3. Enter your code with the number keys.
4. Select one of the options.
5. Press ▶.

Lock or unlock all channels and connected devices

1. Select **Lock** or **Unlock**.

Lock a certain programme or all channels from a certain time



1. Select **Custom lock**.
2. Press ▶ to enter the Custom lock menu.
3. Press ▶ again to enter the Lock after menu.
4. Select **On** to switch on the Timer lock.
5. Press ◀.
6. Select **Time**.
7. Press ▶.
8. Enter the time with ▲ or ▼ and ▶.
9. Press **OK**.

Lock one or more channels and connected devices

1. Select **Custom lock**.
2. Press ▶ to enter.
3. Press ▲ or ▼ to select **Channel lock**.
4. Press ▶.
5. Press ▲ or ▼ to select the channel(s) you want to lock or unlock.
6. Each time press **OK** to lock or unlock the channel.

Set an age rating to a digital programme

Some digital broadcasters have their programmes rated (depending on your country). When the rating is higher than your child's age, the programme will be locked.

1. Select **Custom lock**.
2. Press ▶ to enter.
3. Press ▲ or ▼ to select **Parental rating**.
4. Press ▶.
5. Press ▲ or ▼ to select an age rating.
6. Press **Menu** to quit the Child lock menu.

5.8 Subtitles

For each TV channel, subtitles can be set, coming from Teletext or digital broadcasts.
If digital channels are installed and broadcasted, you can select your preferred subtitle language.

5.8.1 Subtitling from analogue TV channels

1. Select an analogue TV channel.
2. Press **Teletext** to switch on Teletext.
3. Enter the three number pagenumber of the subtitle page.
4. Press **Teletext** to switch off Teletext.

Note

The Teletext subtitle page of analogue channels must be stored for each TV channel separately.

5.8.2 Activate or deactivate subtitling

1. Press **Menu** on the remote control and select Features > **Subtitle** and press ▶ to enter the list.
2. Press ▲ or ▼ to select **On** to show the subtitles always or **On during mute** to show the subtitles only when the sound is muted with the key on the remote control.
3. Press ◀ to return to the Features menu.

TV menu	Features
Smart settings	Subtitle
Picture	Subtitle language
Sound	Sleeptimer
Settings assistant	Child lock
Features	Set/Change code
Setup	On timer
	Common interface
	Demo

5.8.3 Select a digital subtitle language

If subtitle broadcasting is available with digital channels, you can select a preferred subtitle language out of a list of broadcasted languages. The preferred subtitle languages set in the Installation menu are overruled temporarily.

1. Press **Menu** on the remote control and select Features > **Subtitle language** and press ▶ to enter the list of available languages.
2. Press ▲ or ▼ to select a subtitle language.
3. Press **OK**.

5.9 Watch and play your photos and music

Watch pictures or listen to music stored on a USB device (not supplied with the TV), a camcorder (only for photos) or from your PC network. Watch your pictures as a slideshow or listen to a self made music playlist.

Note

Philips is not responsible if your USB device is not supported nor shall Philips accept any liability for damage or loss of stored data.

5.9.1 Insert the USB device

1. Insert a device at the side of the TV hub while the TV is switched on.
 A message appears that a USB device has been detected.

Note

In case the USB device does not automatically break in, press **Source** > USB/Memory devices and press **OK**.
Select **Side** and press **OK** to display your camcorder content.

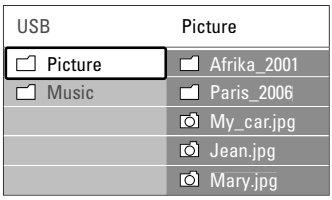
5.9.2 Remove the USB device

1. Press **Source**.
2. Remove the USB device.
3. Select TV or another connected device to watch a programme.

5.9.3 Watch your pictures, start a slideshow and play music

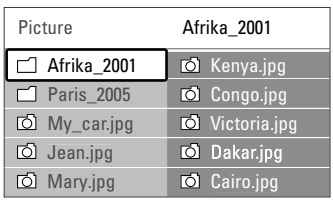
Look up your pictures in the Picture album of your USB device.

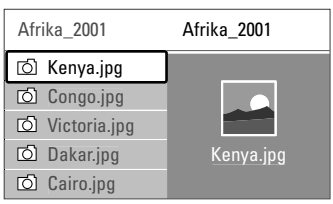
1 Select the Picture folder for the picture files you have stored on your USB device.



2 Press ► to enter the Picture folder.

3 Press ▲ or ▼ to select a picture or a picture album.





4 Press **OK** to watch the picture or to start a slideshow of the pictures in the album.

5 Press **OK** to pause the slideshow. Press again to restart.

6 Press one of the colour keys on the remote control to perform the corresponding function shown at the bottom of the screen.
If the function bar at the bottom disappeared, press any colour key to let it reappear.

7 Press ◄ and select another picture or another album.

Slideshow settings

- **Details / More details**
 Shows the picture name, date, size and next picture in the slideshow.
- **Transitions**
 Shows the list of available transition styles of the pictures.
 Press ▲ or ▼ to select and press **OK** to activate.
- **Slide time**
 Sets the time lag for the picture transitions: Short, Medium or Long.
- **Rotate**
 To rotate a picture.
- **Start/Show/Pause**
 To stop, pause and restart the slideshow.

Thumbnails

Watch the pictures of a selected album in an overview.

1 Select a picture album.

2 Press ► to enter the picture list.

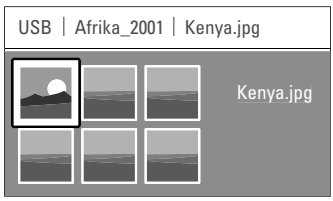
3 Press the blue key.

4 Press ▲ or ▼, ◄ or ► to highlight a picture.

5 Press **OK** to watch the picture.

6 Press ◄ to return to the thumbnail overview.

7 Press the blue key again to go back to the picture list.



Listen to music

Look up your songs in the Music album of your USB device.

1 Select the Music folder for the music files you have stored on your USB device.

2 Press ► to enter the Music folder.

3 Press ▲ or ▼ to select a song or a music album.

4 Press **OK** to play the selected song or to play a song followed by the next song in the same album.

5 Press one of the colour keys on the remote control to perform the corresponding function shown at the bottom of the screen.
If the function bar at the bottom disappeared, press any colour key to let it reappear.

Music settings

- **Details**
 Shows the file name.
- **Repeat one/all**
 Repeat all songs in the album until you stop a song or only repeat the one song selected until you stop the song.
- **Shuffle**
 Play songs in a random sequence.

Watch a slideshow with background music

Watch a slideshow of your stored pictures accompanied with your stored background music.

1. Select an album of songs first and press **OK**.
2. Highlight the Picture folder and select an album of pictures and press **OK**.

5.9.4 Watch photos or listen to music from your PC

To watch photos and listen to music from a connected PC, make sure:

- your router and PC are switched on
- a media server software is running on your PC.

See section **7.7 PC network**.

1. Press the **Source** key on the remote control.
2. Select **PC network** and press ►.
 Wait until the PC content comes on.
3. Select the content you want to watch or listen to and press ►.
4. Use ◄ or ►, ▲ or ▼ to go through the photo or music files or folders.
5. Press **OK** to watch or listen.
6. Press ◄ to go back to the previous list.

See section **9 Troubleshooting** in case of problems playing files or in case your PC does not appear in the PC network menu.

5.10 Listen to digital radio channels

If digital broadcasting is available, digital radio channels are installed during installation.

To listen to a digital radio channel:

1. Press **OK** on the remote control.
 The **All channels** menu is displayed.
2. Use the number keys to select a radio channel available from channel number 400 onwards.
 To reorder see section **6.3.3 Reorder the channels**.
3. Press **OK**.

5.11 Software update

Philips continually tries to improve its products. To benefit, update the TV software regularly. To update your TV software you need a USB Memory device (not supplied).

Verify that your USB memory device has at least 128Mb free space. Make sure the write protection is switched off. Some USB devices do not work with our TV.

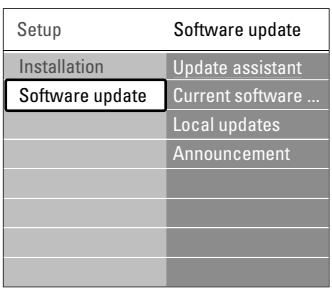
5.11.1 Update assistant

The Update assistant helps you to update the TV's software.

Step 1: TV identification

The TV has to identify with your USB memory device.

1. Press **Menu** > **Setup**.
2. Press ►.
3. Press ▲ or ▼ to select **Software update**.
4. Press ►.



5. Press ▲ or ▼ to select **Update assistant**.
6. Press ►.
7. Press **OK** to activate.
8. Insert a USB memory device into the USB connector at the side of the TV hub.
9. Press the green key to proceed.
 A message appears that the TV has successfully written its identification file to the USB memory device.
10. Press the green key again to finish.
11. Remove the USB memory device from the TV hub.

Step 2: Software download from the PC to the USB device

1. Insert the USB memory device into a PC linked to the internet.
2. Locate and open the file **update.htm** on your USB device.
3. Read the instructions on screen and click on the **Send ID** button.
 If new software is available, the update is downloaded on the USB memory device.
4. Remove the USB memory device from your PC.

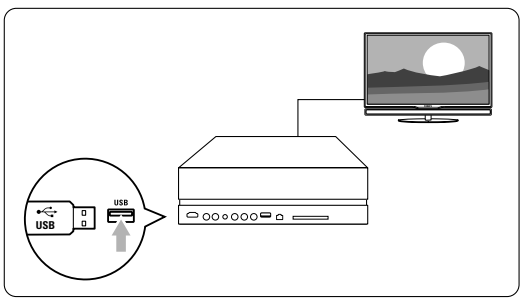
Step 3: Software update transfer to the TV

The downloaded software on the USB memory device must now be uploaded to your TV.

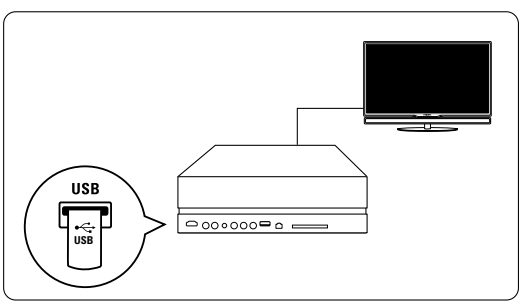
Caution

- Never remove the USB memory device from the TV during the software update.
- If a power drop occurs during the update, never remove the USB memory device from the TV hub. When the power returns, the TV continues to update.

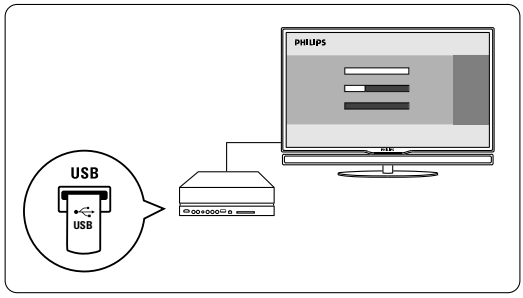
1. Switch on the TV.
2. Insert the USB memory device to the USB connector at the side of the TV hub.



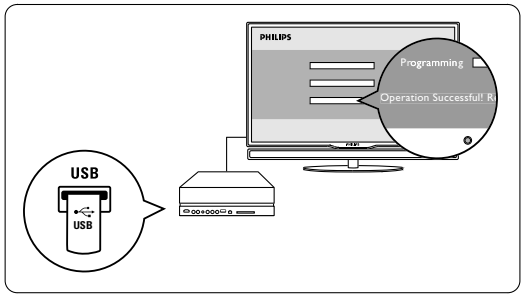
3. The TV switches off. The screen stays black for about 10 seconds. Wait and never use the power switch ⏻ on the TV hub.



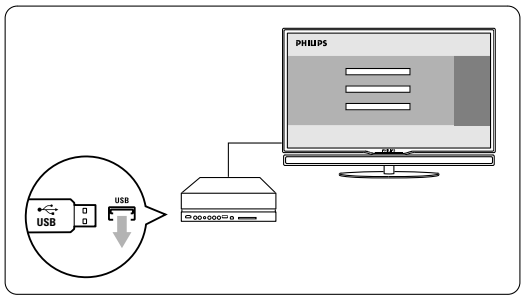
4 The update process starts automatically. Please wait.



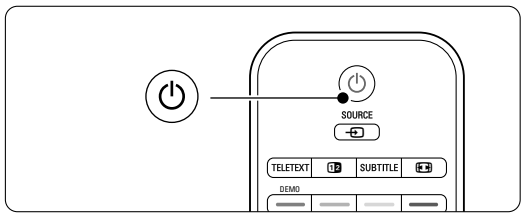
The update is finished when the message '**Operation successful**' appears on the screen.



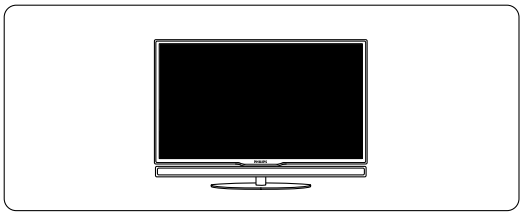
5 Remove the USB memory device from the TV hub.



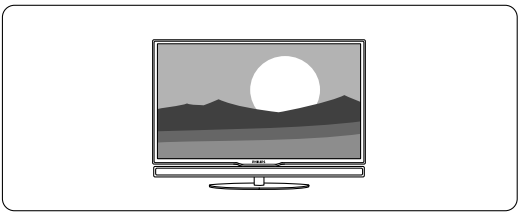
6 Press ⏻ on the remote control.
Never press more than once and never use the **Power** ⏻ switch on the TV hub.



7 The TV switches off. The screen stays black for about 10 seconds. Please, wait.



8 The TV switches back on again. The update is done.



5.11.2 Software update by digital broadcast (DVB-T)

Your TV might receive new software from the digital broadcast system automatically.
If you receive an update message on screen it is strongly advised to update the software immediately - select **Now**.
If you want to be reminded later on, select **Later**.
Select **Cancel** to quit the update (not recommended). If you cancelled the update you can still update yourself from the TV menu > Setup > Software update > Local updates.

6 Channel installation

The first time you switched on your TV
- you have selected the language of the TV menus and the country where you are located
- all the available TV Channels have been installed.

This chapter provides instructions on how to reinstall channels as well as other useful channel installation features.

Note:
Re-installation will modify the All channels list and new added channels will not be added to any favourite list.

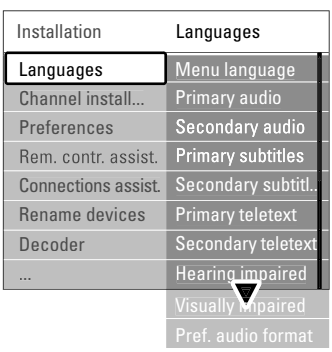
6.1 Automatic installation

This section describes how to search for and store all available channels automatically.

Step 1: Menu language

Sets the language of the TV menus. Go to a next step if your language settings are correct.

1. Press **Menu** on the remote control and select Setup > Installation > **Languages** and press ▶ to enter **Menu language**.
2. Press ▲ or ▼ to select your language.
3. Press **OK** to confirm.
4. Press ◀ to return to the Installation menu.



The Languages menu also offers the following language settings when digital channels are installed and broadcasted.

- **Preferred audio language**
 Select one of the available audio languages as primary preferred and secondary preferred language.
- **Preferred subtitle languages**
 Select one of the available subtitle languages as primary preferred and secondary preferred language. See section **5.8 Subtitles**.
- **Preferred teletext languages**
 Select one of the available teletext languages as primary referred and secondary preferred language.
- **Hearing impaired**
 Select **On** to display the hearing impaired subtitle version of your preferred audio or subtitle language when available.
- **Visually impaired** (UK only)
 Select to hear the additional commentary audio (if available) in your selected audio language through the speaker bar of your TV screen or through the headphones or through both.

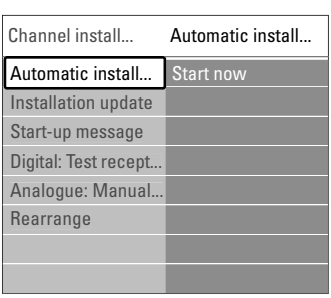
Note:
If both Visually impaired and Hearing impaired are enabled, the Visually impaired language will have priority for audio, the Hearing impaired for subtitles.

- **Preferred audio format**
 Select your preferred and available audio format to achieve the best sound reproduction.
 Select **Advanced** for the best sound reproduction if a Home theatre system is connected to your TV hub. Select **Standard** in all other cases.

Step 2: Select your country

Select the country where you are located.
The TV will install and arrange the TV channels according to the country selected.
Go to a next step if your country selection is correct.

1. Press ▼ to select **Channel installation**.
2. Press ▶ to enter the Channel installation menu. **Automatic installation** is highlighted.
3. Press ▶ to enter.
4. Press **OK**.
 The Country list appears.
5. Press ▲ or ▼ to select your country.
6. Press **Next**.



Step 3: Select Antenna or Cable

This selection is only available when this TV is prepared to receive DVB-C channels in your country.

Select **Antenna** to install all digital terrestrial (DVB-T) and analogue channels available.

Select **Cable** to install all digital cable (DVB-C) and analogue channels available.

1. Press ▲ or ▼ to select **Antenna** or **Cable**.
2. Press **Next**.
3. If the TV asks for it, enter the Network ID you received from your provider.

Note

You can do a Channel installation if you are both connected to a digital antenna and a cable network. Therefore do the installation twice. To watch the stored Antenna channels or the stored Cable channels, you will have to switch between Antenna or Cable in the Channel installation > Antenna or Cable menu.

Step 4: Install TV and radio channels

Your TV will search for and store all available digital and analogue TV channels and all available digital radio channels.

If you selected Cable in Step 3, a Settings menu is available. Leave these settings unchanged unless your provider supplied specific values to use for Network frequency, Network ID or Symbol rate. Follow the text on screen to change the settings. Use the digit keys to enter the numbers. You can also select to install analogue channels or not.

1. Select **Start**.
 The installation may take a few minutes.
 In case of Cable selection, the TV can ask to enter the Network ID supplied by the cable provider. Enter this ID with the digit keys.
2. When the installation is done, press **Finish** to return to the Channel installation menu.
3. Press **Menu** to quit the menu.

Tip

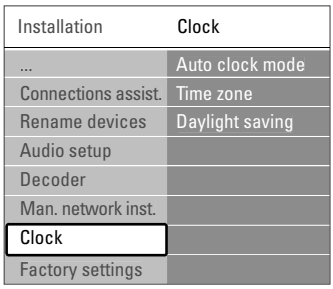
When digital channels are found, the list of installed channels may show some empty channel numbers. If you want to rename, reorder or uninstall stored channels, see section **6.3 Rearrange stored channels**.

Step 5 Clock, time zone and daylight saving selection

Only available when the country selected supports digital broadcasts.

Go to a next step if this step is not applicable.

1. Press ▼ to select **Clock**.
2. Press ► to enter.
3. Press ▲ or ▼ to select **Auto clock mode**.
4. Press ► to enter.



Auto clock mode

Select **Automatic** to instruct your TV to always get the time correctly. Time zone and Daylight saving correction are automatically set.

Select **Manual** when Universal Time Coordinated (UTC) is not available in your area.

Time zone/Daylight saving

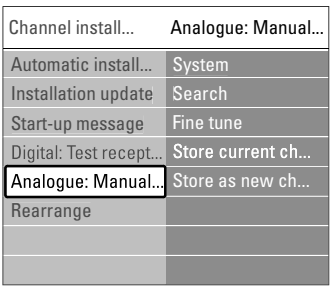
When you selected Auto clock mode manually, select your local time zone and choose between **Standard** (winter) and **Daylight saving time** (summer).

6.2 Analogue: Manual installation

You can tune-in analogue TV channels channel by channel manually with Manual installation.

6.2.1 Select the system

1. Press **Menu** and select Setup > Installation > Channel installation > **Analogue: Manual installation**.
2. Press ▶ to enter the Manual installation menu. **System** is highlighted.
3. Press ▶ to enter the System list.
4. Press ▲ or ▼ to select your country or part of the world where you are now located.
5. Press ◀ to return to the Manual installation menu.



6.2.2 Search for and store a new channel

1. Press **Menu** and select Setup > Installation > Channel installation > Analogue: manual installation > **Search**.
2. Press ▶ to enter the Search menu.
3. Press the red key to enter the frequency yourself or press the green key to search for a next channel.

Tip

If you know the frequency, enter the three numbers of the frequency with the number keys of the remote control.

4. Press ◀ when the new channel has been found.
5. Select **Store as new channel** to store the new channel under a new channel number.
6. Press ▶ to enter.
7. Press **OK**.
 Done appears.
8. Press **Menu** to quit the channel installation menu.

6.2.3 Fine tune a channel

Fine tune a found channel when the reception is poor.

1. Press **Menu** and select Setup > Installation > Channel installation > Analogue: manual installation > **Fine tune**.
2. Press ▶ to enter the Fine tune menu.
3. Press ▲ or ▼ to adjust the frequency
4. Press ◀ when you finished fine tuning.
5. Select **Store current channel** to store the fine tuned channel under the current channel number.
6. Press ▶ to enter.
7. Press **OK**.
 Done appears.
8. Press **Menu** to quit the Channel installation menu.

6.3 Rearrange stored channels

To rename, reorder, uninstall or reinstall stored channels.

6.3.1 Rename a channel

Assign or change a channel name to a channel for which a name has not yet been entered.

1. Press **Menu** and select Setup > Installation > Channel installation > **Rearrange**.
2. Press ▶ to enter the channel list.
3. Press ▲ or ▼ in the channel list to select the channel you want to rename.
4. Press the red key.
5. Press ◀ or ▶ to select a character or ▲ or ▼ to change the characters. Space, numbers and other special characters are located between **z** and **A**.
6. Press the green key or **OK** to finish.

Tip

To delete all characters, press the yellow key.
To delete the highlighted characters, press the blue key.

6.3.2 Uninstall or reinstall a channel

To uninstall a stored channel so that it is no longer possible to tune to.
Reinstall an earlier uninstalled channel.

1. Press **Menu** and select Setup > Installation > Channel installation > **Rearrange**.
2. Press ▶ to enter the channel list.

3 Press ▲ or ▼ in the channel list to select the channel you want to uninstall or reinstall.
4 Press the green key to uninstall or reinstall the channel.
5 Press **Menu** to quit the menu.

6.3.3 Reorder the channels

Change the order of the stored channels.
1 Press **Menu** and select Setup > Installation > Channel installation > **Rearrange**.
2 Press ▶ to enter the channel list.
3 Press ▲ or ▼ in the channel list to select the channel you want to reorder.
4 Press the yellow key to move up the highlighted channel in your channel list.
5 Press the blue key to move down the highlighted channel in your channel list.
6 Press **Menu** to quit the menu.

6.4 Channel management

6.4.1 Automatic search

Once a day, at 3 AM, the TV searches for all available TV channels automatically. Leave your TV in standby.
Earlier found channels are updated and new channels are stored. Channels not found by the search anymore are removed from the channel list. When Channel management has found or removed channels, a message at TV start up is shown. You can activate or deactivate this message.
1 Press **Menu** and select Setup > Installation > Channel installation > **Startup message**.
2 Select On or Off.

6.4.2 Manual search

You can install the updates at any time.
1 Press **Menu** and select Setup > Installation > Channel installation > **Installation update**.
2 Press ▶ to enter the Installation update menu.
3 Press **OK**.
4 Press the green key to start.
The update starts and may take a few minutes.
5 When the update is completed, press the red key to return to the Channel installation menu.
6 Press **Menu** to quit the menu.

6.5 Digital reception test

If you receive Digital TV broadcasting you can verify the quality and signal strength of a specific channel.
1 Select a channel.
2 Press **Menu**.
3 Select Setup > Installation > Channel installation > **Digital: Test reception**.
4 Press ▶ to enter
5 Press **OK**.
6 Press the green key to start the test.
Information on the quality and the signal strength of this channel is shown.
7 Use the cursor keys to change the frequency to improve the signal or enter a new frequency directly with the digit keys.
8 Press the green key to store the frequency if the signal quality and strength are good.
9 Press the red key to return to the Channel installation menu.
10 Press **Menu** to quit the menu.

Tip

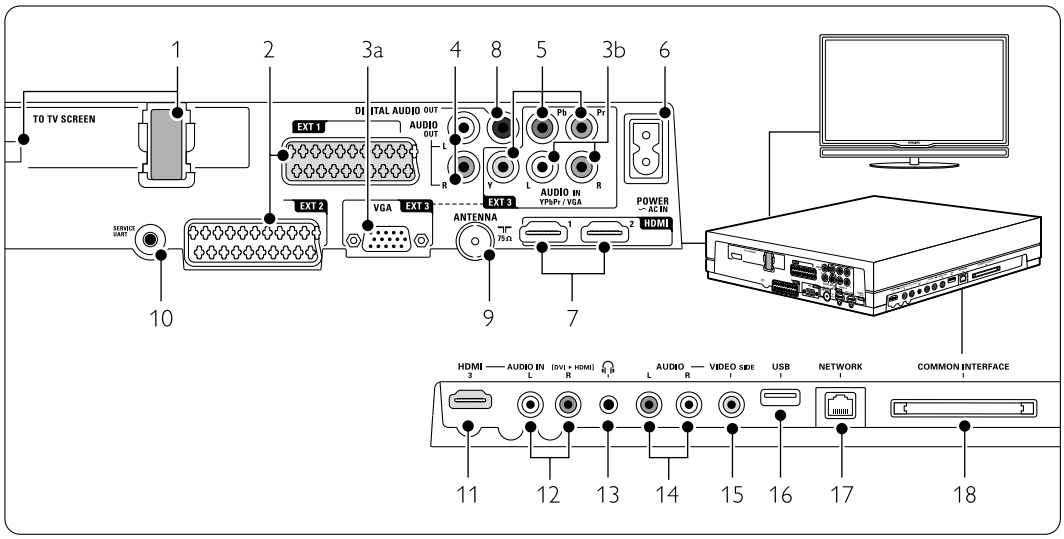
To achieve the best results, contact a specialised antenna installer.

6.6 Factory settings

You might want to return to the original factory settings. Only picture and sound settings will be reset.
1 Press **Menu** and select Setup > Installation > **Factory settings**.
2 Press ▶ to enter the Factory settings menu.
3 Press **OK**.
4 Press **Menu** to quit the menu.

7 Connections

7.1 Connection overview



Back connectors

1 **Singe cable connector**

2 **EXT1, EXT2**
Scart connectors for DVD, VCR, Digital receiver, Game console, etc.

3a **VGA-EXT3**
VGA connector for a PC.

3b **AUDIO L/R**
Audio L/R input to be used together with the VGA connector or the YPbPr connector.

4 **Audio Out L/R**
Sound output cinch connectors for a Home Theatre System, etc.

5 **YPbPr**
Component video YPbPr and Audio L/R connectors for DVD, Digital receiver or Game console, etc.

6 **Mains connector**

7 **HDMI 1, HDMI 2**
HDMI input connectors for Blu-ray Disc player, HD Digital receiver or HD Game console, etc.

8 **Digital Audio Out**
Sound output cinch connector for a Home Theatre System, etc.

9 **Antenna input**

10 **Service UART**
For service only.

Left side connectors

11 **HDMI 3**
HDMI input

12 **Audio L/R**
Audio L/R input to be used together with a DVI to HDMI cable connected to an HDMI connector (HDMI 1, 2 or 3).

13 **Headphones**
Stereo Mini jack

14 **Audio L/R**
Audio L/R input to be used together with VIDEO on the side of the Connectivity hub.

15 **VIDEO**
Video input to be used together with AUDIO L/R on the side of the Connectivity hub.

16 **USB**
USB connector

17 **Network**
Home network connector

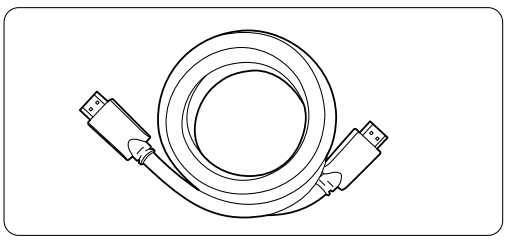
18 **Common interface**
Slot for Conditional Access Modules (CAM)

7.2 About connections

7.2.1 What you need to know

Connect your device with the highest possible quality connection.
Look for the highest quality connection on your device. Use that connection to your TV hub.

HDMI - Highest quality ★★★★★
An HDMI connection has the best picture and sound quality. One cable combines video and audio signals. Use HDMI for HD (High Definition) TV signals. HDMI with EasyLink offers easy operating of your connected devices when these have the HDMI CEC standard. See section **7.2.2 EasyLink**
A device connected with HDMI to the TV hub can only send out audio and video signals to your TV hub. The device cannot receive or record audio and video from your TV.



HDMI cable (max. 5m)

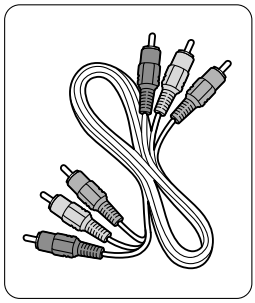
Tip

DVI to HDMI – Higher quality ★★★★
Use a DVI to HDMI adaptor if your device has only a DVI connection.
Connect an Audio L/R cable to Audio In L/R (DVI to HDMI) at the side for sound.

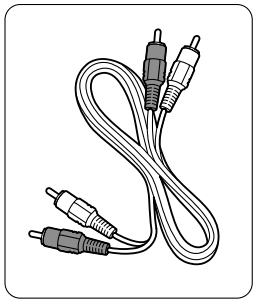
Note

HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a copy protection signal that comes with HD content (DVD disc or Blu-ray Disc).

YPbPr – Higher quality ★★★★
Use the Component Video YPbPr connections together with Audio Left and Right. Match the cable colours when you connect.
YPbPr can handle HD TV signals.

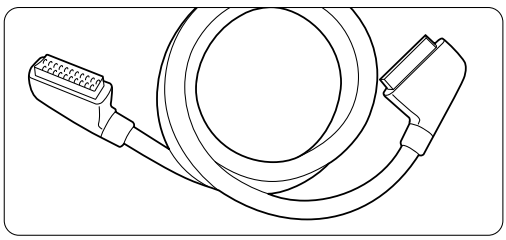


Component Video YPbPr cable - Red, Green, Blue



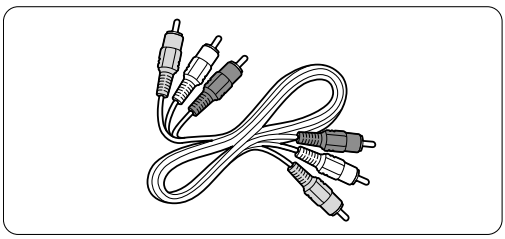
Audio L/R cable - Red, White

Scart - Good quality ★★★
One cable combines video and audio signals.
Scart connectors can handle RGB video but no HD TV signals.



Scart cable

Video - Basic quality ★
Use a Video (cinch) cable together with an Audio L/R (cinch) cable. Match the cable colours when you connect.



Combined Video - yellow and Audio L/R cable - red and white

7.2.2 HDMI with EasyLink

Connected devices that are compliant with the HDMI CEC standard can work together.

1. Press **Menu** > Setup > Installation > **Preferences** and press ▶ to enter the list.
2. Press ▲ or ▼ to select **EasyLink**.
3. Press ▶ to enter.
4. Press ▲ or ▼ to select **On** or **Off**.
5. Select **On** to activate EasyLink.

EasyLink might not work with devices from other brands.

One touch play

Insert a DVD disc and press Play. The TV switches on from standby and shows the DVD programme automatically.

System standby

Press the ⏻ key on the remote control for more than 2 seconds to switch the connected devices in standby.

System audio control

When you connect an audio system you can listen to the sound from your TV through your audio system while the TV speakers are muted. See section **5.4.5 Sound settings, TV speakers**.

Note

Ensure that all HDMI-CEC features in the HDMI-CEC devices (for ex. Home Theatre System) are properly set up.

7.2.3 Display synchronised audio out

For the best match of image and sound in speech on screen, connect a Home Theatre System to Audio Out L/R or Digital Audio outputs. See diagrams **7.4.4** and **7.4.8.**

Never connect the audio signal of a DVD player, digital receiver or other audio/video device directly to the Home Theatre System.

7.3 Connect with the Connection assistant

(if available)

Use the Connection assistant to show you how to connect your devices to the TV hub. It sets all necessary settings automatically.

You can also connect your devices without the use of the Connection assistant. See section **7.4 Connect without the Connection assistant**.

1. Press **Menu** on the remote control and select Setup > Installation > **Connection assistant**.
2. Press ▶ to start the Connection assistant.
3. Press **OK.**

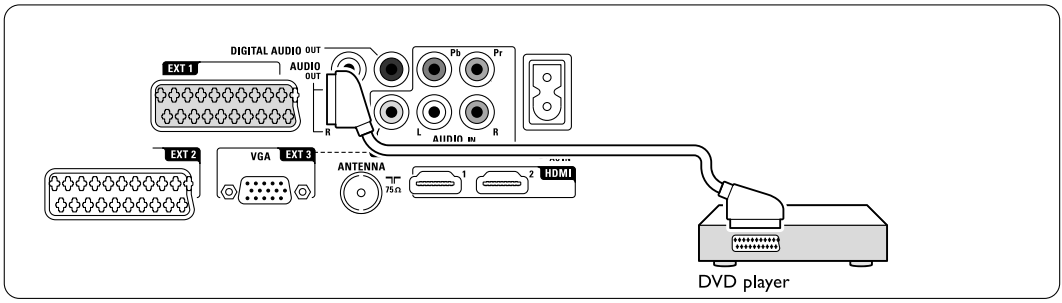
7.4 Connect without the Connection assistant

The connections shown in this section are recommendations for the most used cases. Other solutions are possible.

When a device is connected the TV needs to know what connection you made. See section **7.5 Connection setup**.

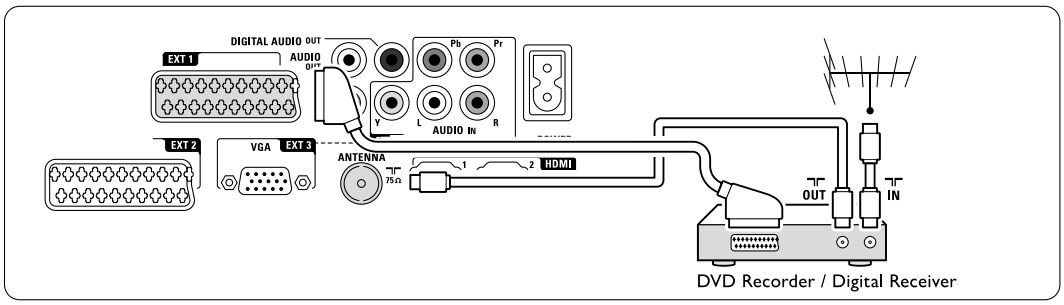
7.4.1 DVD player

Use a scart cable to connect the device to the EXT1 input at the back of the TV hub.



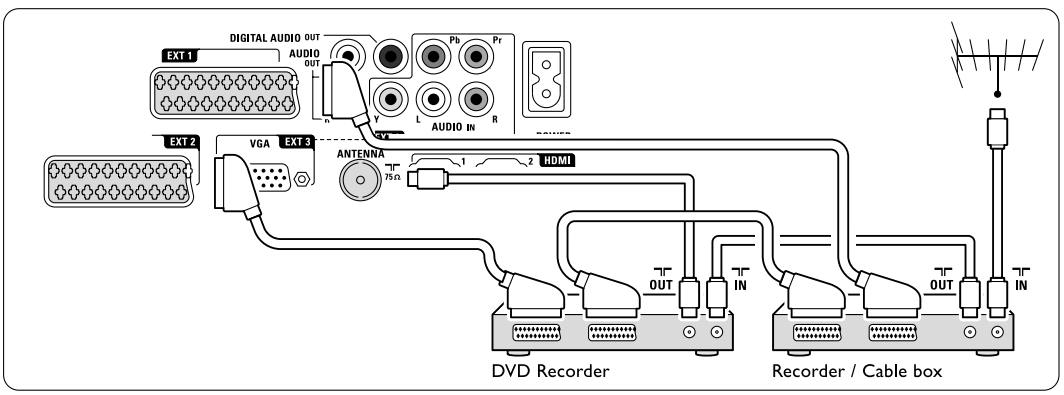
7.4.2 DVD Recorder or Digital Receiver

Use a scart cable and 2 antenna cables.



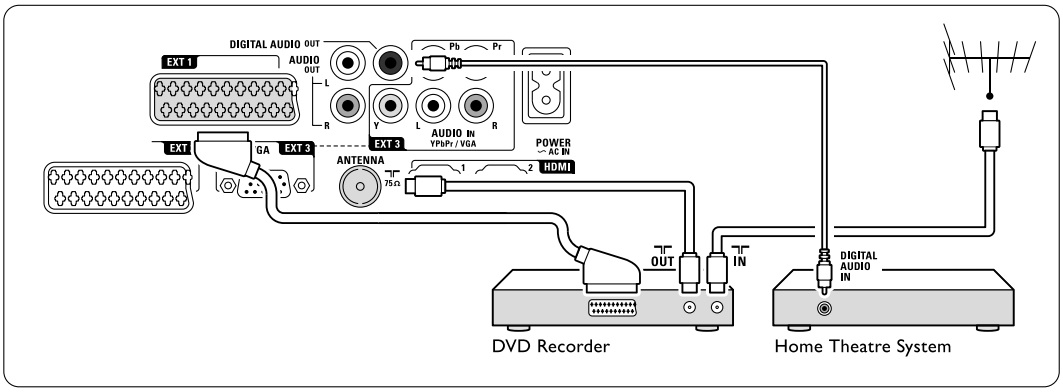
7.4.3 DVD Recorder and Digital Receiver

Use 3 scart cables and 3 antenna cables.



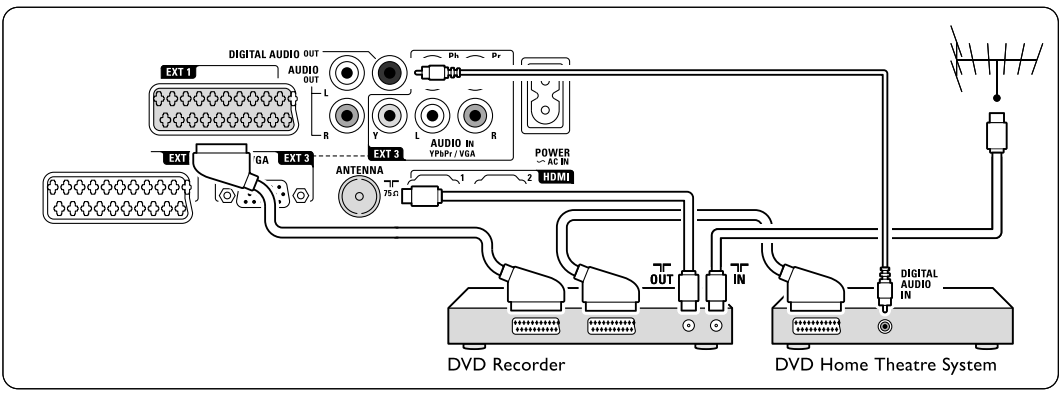
7.4.4 DVD Recorder and Home Theatre System

Use a scart cable, 2 antenna cables and 1 digital audio (cinch) cable.



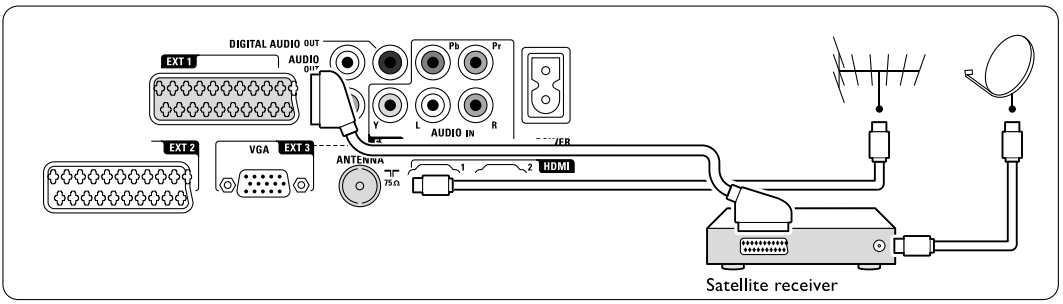
7.4.5 DVD Recorder and DVD Home Theatre System

Use 2 scart cables, 2 antenna cables and 1 digital audio (cinch) cable.



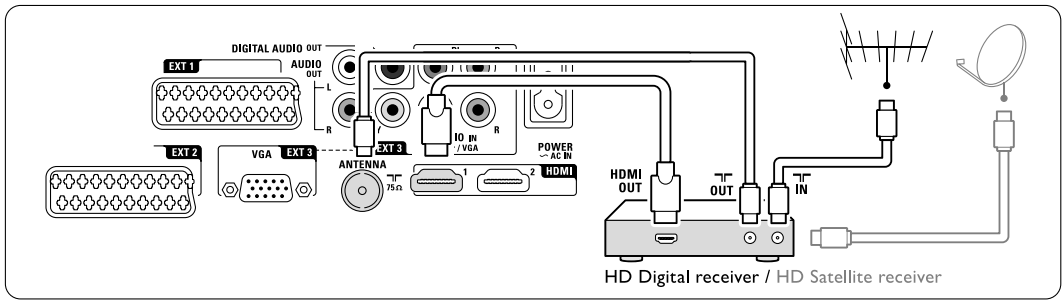
7.4.6 Satellite receiver

Use a scart cable and 2 antenna cables.



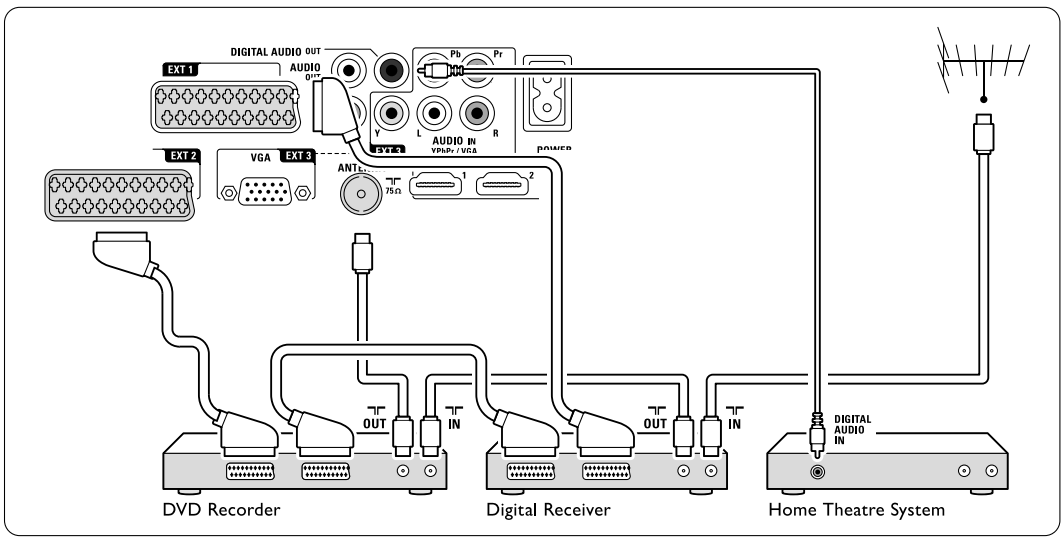
7.4.7 HD Digital receiver / HD satellite receiver

Use an HDMI cable and 2 antenna cables.



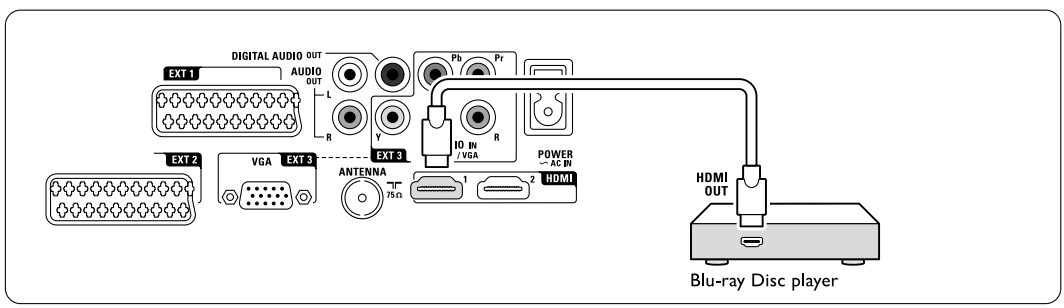
7.4.8 DVD-R, Home Theatre System and Digital receiver

Use 3 scart cables, 3 antenna cables and 1 audio (cinch) cable.



7.4.9 Blu-ray Disc player

Use an HDMI cable.

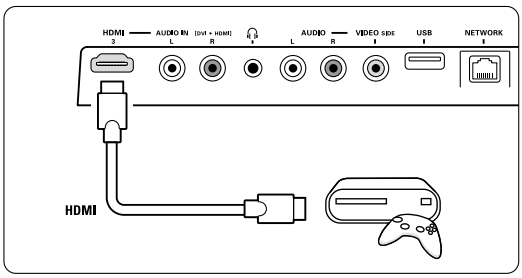


7.4.10 Game console

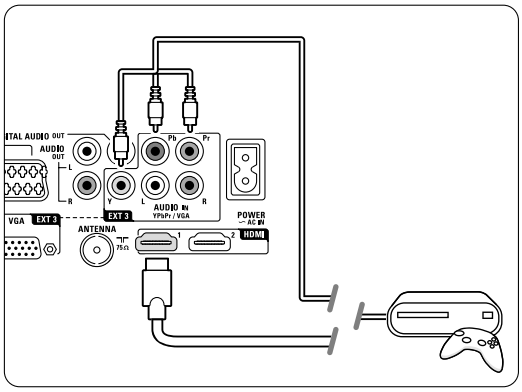
The most practical connections for a game console are at the side of the TV hub.

Note:
To prevent picture delay, set the TV in game mode. Press Menu > TV menu > Smart settings > **Game**.

Connected at the side of the TV hub
Use the HDMI connection or the Video and Audio L/R connections.



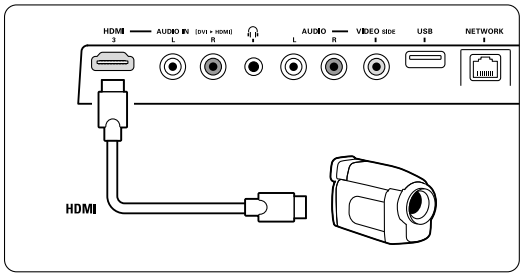
Connected at the back of the TV hub
Use an HDMI connection or the EXT3-YPbPr and Audio L/R connections for HD quality



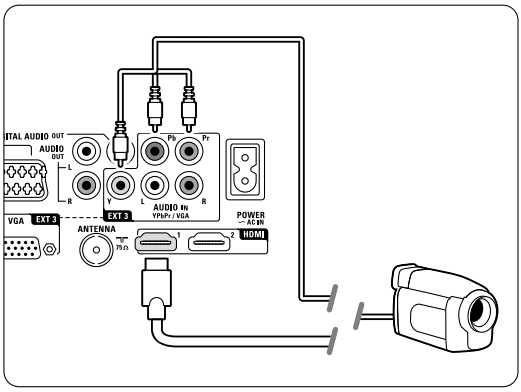
7.4.11 Camcorder

The most practical connection for a camcorder is at the side of the TV hub.

Connected at the side of the TV hub
Use the HDMI connection or the Video and Audio L/R connections.



Connected at the back of the TV hub
Use an HDMI connection or the EXT3-YPbPr and Audio L/R connections for HD quality.



7.4.12 Personal Computer

You can connect your PC directly to the TV hub. The Essence Full HD screen works as a monitor of your PC.
For more features you can connect your PC in a PC network. See section **7.7 PC network**.
As a monitor the PC can be connected with a DVI to HDMI adaptor. Alternatively you can connect the PC with the VGA connection.

Caution

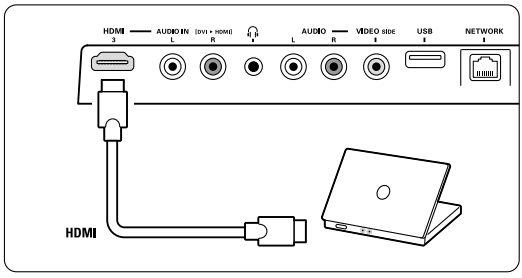
Before connecting the PC, set the PC monitor refresh rate to 60Hz.

Tip

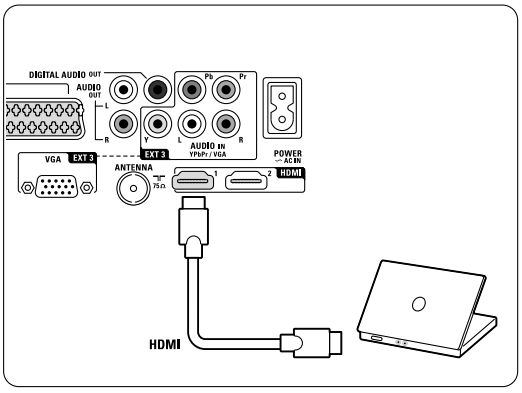
Set the TV picture format to Unscaled in the Picture format menu for maximal PC picture sharpness. See section **5.3.4 Widescreen picture format**.

DVI to HDMI connection

Use a DVI to HDMI adaptor to connect to the HDMI side



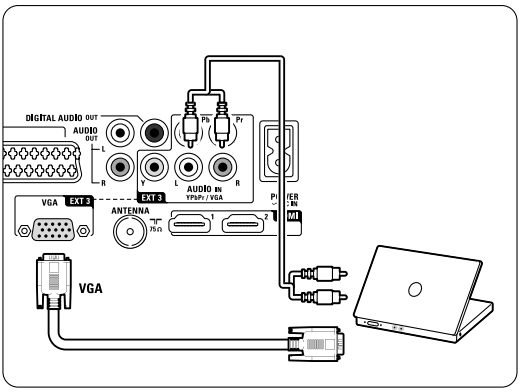
or back connection.



Connect the Audio L/R for sound.

VGA connection

Use a VGA cable to connect the PC to the EXT3 connection at the back of the TV hub.
Connect the Audio L/R to the EXT3 Audio L/R.



For supported PC monitor resolutions, see section **8 Technical data**.

7.5 Connection setup

The TV needs to know what connections you have made and which device is connected to which connector.
If you have used the Connection assistant the connection setup is already done.

7.5.1 Naming your devices

Name the connected devices for easy selection and best signal handling.
Assign the type of device (DVD, VCR, Game, ...) to the connector you use for that device.

1. Press **Menu** on the remote control and select Setup > Installation> **Rename devices**.
2. Press ▶ to enter the list.
3. Press ▲ or ▼ to select the connector you used for the device you connected.
4. Press ▶.
5. Press ▲ or ▼ to select the type of device.
6. Press **Menu** to quit the menu.

7.5.2 Decoder channels

Decoders that decode an antenna channel are connected to **EXT1** or **EXT2** (scart).
You have to assign the TV channel as a channel to be decoded. Then assign the connection where the decoder is connected.

1. Press **Menu** on the remote control and select Setup > Installation > Decoder > **Channel**.
2. Press ▶ to enter the list.
3. Press ▲ or ▼ to select the channel to decode.
4. Press ◀ and go back to select **Status**.
5. Press ▲ or ▼ to select the connector used by the decoder.
6. Press **Menu** to quit the menu.

Installation	Decoder
...	Channel
Preferences	Status
Connections assist.	
Rename devices	
Decoder	
Man. network inst.	
Clock	
Factory settings	

7.6 Preparing for digital services

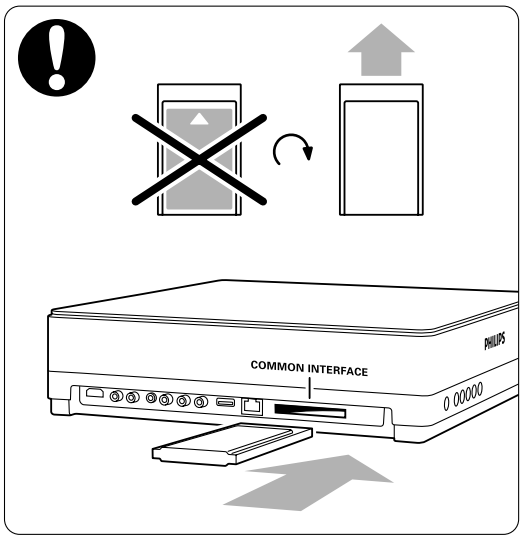
Scrambled digital TV channels can be decoded with a Conditional Access Module (CAM) and a Smart card provided by a digital TV service operator. The CAM may enable several services depending on the operator you choose (e.g. Pay TV).
Contact your digital TV service operator for more information and terms.

7.6.1 Insert a Conditional Access Module - CAM

Warning
Switch off the TV hub before inserting the CAM. Look on the CAM for the correct inserting direction. Incorrect insertion can damage the CAM and the TV.

1. Gently insert the CAM into the **Common Interface** slot at the side of your TV hub as far as it will go.
2. Leave the CAM in the Common Interface slot permanently.

It can take a few minutes before a CAM is activated. Removing the CAM will deactivate the digital TV service.



7.6.2 Common interface menu

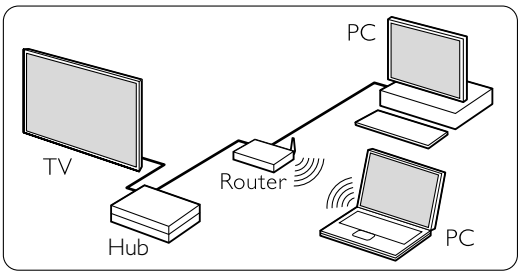
From this menu you access the CAM service you have installed. The applications and their function, the content and the messages on screen come from the CAM service provider.

1. Press **Menu** on the remote control and select Features > **Common interface**.

This menu option is available when a CAM is inserted and has made contact with the provider.

7.7 PC network

You can link up your TV on a PC network in your home. Watch your photos and listen to your music from any linked PC on the TV. The PC network feature of this TV is DLNA certified.
You can use Microsoft Windows XP or Vista, Intel Mac OSX or Linux.
An example of a home PC network.



7.7.1 What you need

To set up your TV in a home PC network you need:

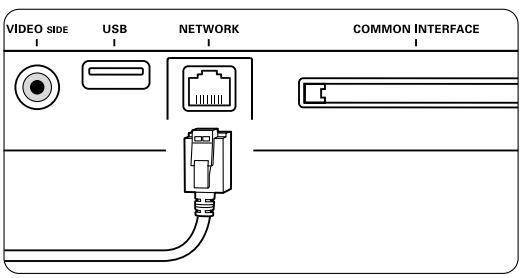
- a router and a computer in a home network
- a network cable
- recent media server software (Windows, media Player 11 or similar) on your computer.

For a complete list of compatible media server software see section **8 Technical data**.

7.7.2 Set up a PC network connection

On the TV no special settings are necessary to connect automatically to the network.

1. Connect the network cable from your router to the **Network** connector at the side of the TV hub.



2. Switch on the router. Set the router to DHCP On.
3. Switch on the computer and start the media server software.
4. Some media server software needs a setting to share your files with the TV.
 In the media server this TV will present itself as a number - a MAC or IP number.
 Have the TV and router switched on for this number to appear in the media server.
 Select the TV number in the media server and set the server to share files with this number.
 For media server software marked with an * in sections **8 Technical data**, a step by step setting instruction is available in the online User manual. Type in your TV model number on www.philips.com/support. In the extended User manual, see section **7.7 PC network**.

 A firewall, a security system on your computer, could also block the network connection.
 Allow the media server software to go to the network.
5. Press the **Source** key on the remote control.
6. Select **PC network** and press ▶.
 It could take some time for the TV to connect.
7. Use the colour and navigation/rotation keys to browse your folders or play your files.

If the TV cannot connect to the network, study the server software, router or PC manuals.

7.7.3 Manual network setup

Some expert network settings can be set on the TV. The DHCP is set to On to automatically connect to the network.
Press **Menu** > Setup > Installation > Manual network installation.

8 Technical data

Picture / Display
- Display type: LCD Full HD W-UXGA
- Panel resolution: 1920x1080p
- Perfect Pixel HD picture enhancement
- 1080p 24/25/30/50/60Hz processing
- 100 Hz Clear LCD

Supported display resolutions
- Computer formats

Resolution	Refresh rate
640 x 480p	60Hz (VGA/HDMI)
600 x 800p	60Hz (VGA/HDMI)
1024 x 768p	60Hz (VGA/HDMI)
1280 x 768p	60Hz (VGA/HDMI)
1360 x 765p	60Hz (VGA/HDMI)
1360 x 768p	60Hz (VGA/HDMI)
1280 x 1024p	60Hz (HDMI)
1920 x 1080i	60Hz (HDMI)
1920 x1080p	60Hz (HDMI)

- Video formats

Resolution	Refresh rate
480i	60Hz
480p	60Hz
576i	50Hz
576p	50Hz
720p	50Hz, 60Hz
1080i	50Hz, 60Hz
1080p	24Hz, 25Hz, 30Hz
1080p	50Hz, 60Hz

Tuner / Reception / Transmission
- Antenna input: 75ohm coaxial (IEC75)
- TV system: DVD COFDM 2K/8K, (MPEG2, MPEG4 if available)
- Video playback: NTSC, SECAM, PAL
- DVB: DVB Terrestrial/DVB cable (see selected countries on the TV typeplate)

Sound
- Sound system:
 - Virtual Dolby Digital
 - BBE

Multimedia
- Connections: USB
- Playback formats: MP3, Slideshow (.alb) JPEG, MPEG1, MPEG2.

Supported media server software
- Windows Media Player 11 (on Microsoft Windows XP* or Vista*)
- PacketVideo Twonky Media 4.4.2 (on PC* & Intel Mac OSX*)
- Sony Vaio media server (on Microsoft Windows XP or Vista)
- TVersity v.0.9.10.3 (on Windows XP*)
- Nero 8 - Nero MediaHome (on Microsoft Windows XP)
- DiXiM (on Windows XP)
- Macrovision Network Media Server (on Windows XP)
- Fuppes (on Linux)
- UShare (on Linix)
- Philips Media Manager (on Microsoft Windows XP)
- Philips NAS SPD8020

* For this media server software a step by step setting instruction is available in the online User manual on www.philips.com/support.

Supported USB/Memory device formats
- FAT 16, FAT 32, NTFS.

Remote control
- Type: RC4480
- Batteries: 2 coin cell batteries CR2032

Connectivity
Back
- EXT1 (scart): Audio L/R, CVBS in, RGB
- EXT2 (scart): Audio L/R, CVBS in, RGB,
- EXT3: Y Pb Pr or VGA, Audio L/R
- HDMI 1 in (HDMI 1.3a for all HDMI connections)
- HDMI 2 in
- Audio Out L/R - display synchronised
- Digital Audio out (coaxial-cinch-S/PDIF) - display synchronised

Side
- HDMI 3 side in
- Audio In L/R (DVI to HDMI)
- Audio In L/R
- Video in (CVBS)
- Audio L/R in
- Headphone (stereo mini jack)
- USB
- Common interface slot
- Network - (RJ45)

Power

- Mains power: AC 220-240V (±10%)
- Power and standby power consumption:
 See technical specification on www.philips.com
- Ambient temperature: 5°C - 35°C

Specifications are subject to change without notice.
For more specification details of this product see
www.philips.com/support.

Dimensions and weights (approx.)

TV screen	**42PES0001D/H**
- width	982 mm
- height	632,5 mm
- depth	49,8 mm
- weight	± 16,5 kg
TV screen + stand	
- width	982 mm
- height	685 mm
- depth	250 mm
- weight	± 20 kg
Connect. hub	
- width	320 mm
- height	84 mm
- depth	320 mm
- weight	± 4,7 kg

9 Troubleshooting

Television and remote control

The TV does not switch on

- Verify the mains cord connection.
- Verify if both connectors of the single cable are connected properly to the TV hub and to the TV screen.
- Verify if you pulled out the plastic insulation sheet from the batteries of the remote control.
- Verify if the batteries of the remote control are not empty or weak. Verify their orientation. You can use the keys on the TV hub to switch the TV on.
- Unplug the mains cord, wait a minute and plug it back in. Try again to switch on.

The TV does not react on the remote control

- Verify if the batteries of the remote control are not empty or weak. Verify their + orientation.
- Clean the remote control and TV sensor lens.

The TV switches off and the red light blinks

- Unplug the mains cord, wait a minute and plug it back in. Verify if there is enough space for ventilation. Wait until the Connectivity hub has cooled down. When the TV does not restart to standby and the blinking occurs again, call our Customer Care.

You forgot your code to unlock Child lock

- See section **5.7.3 Set code / Change code**.

Wrong language in the TV menu ?

Follow these steps to change the language.

1. Press **Menu** ▣ on the remote control.
2. Use ▼ to select the last menu line.
3. Press ▶ three times.
4. Press ▲ or ▼ to select your language.
5. Press **OK**.
6. Press **Menu** ▣ to quit the menus.

TV channels

Some TV channels are gone

- Verify if the correct channel list is chosen.
- A channel could be uninstalled in the **Rearrange menu**.

No digital channels found during installation

- Verify if the TV supports DVB-T or DVB-C in your country. See the label "Digital TV Country Compatibility" on the back of the TV screen.

Picture

The sound is on, but there is no picture

- Verify the contrast or brightness setting in the menu.

The TV picture is poor

- Verify if the antenna is connected properly.
- Non-earthed audio devices, neon lights, high buildings or mountains can influence the picture quality. Try to improve the picture by changing the antenna direction or place devices away from the TV.
- Verify if the correct TV system is chosen in the Manual installation menu.
- If only a certain channel is poor, try to fine tune this channel in the **Fine tune** menu. See section **6.2.3**.

The picture has poor colour

- Verify the colour settings in the Picture menu. Select any of the smart settings in the **Smart settings** menu. See section **5.3.1**.
- Verify the connections and cables of the connected devices.

Picture delay when a game console is connected

- To prevent picture delay, set the TV in game mode. Press Menu > TV menu > Smart settings > **Game**.

The TV does not remember my settings when I switch back on

- Verify if the TV is set to **Home** in the TV menu > Setup > Installation > Preferences > **Location** menu.

The picture does not fit the screen, it is too big or too small

- Select a more fitting picture format in the Picture format menu.
 See section **5.3.4 Widescreen picture format**.
- Name your connected device in the Connections menu to obtain the best signal handling.
 See section **7.5.1 Naming your devices**.

The picture position on screen is not correct

- Some picture signals from some devices do not fit the screen correctly. You can shift the picture with the cursor keys on the remote control. Verify the signal output of the device.

Sound

There is a picture but no sound
- Verify the volume is not set to 0.
- Verify the sound has not been muted with the key.
- Verify if all cables are connected properly.
- If no sound signal is detected, the TV automatically switches off the sound.
 This is proper operation and is not a malfunction.

The sound is poor
- Verify if the sound is set to Stereo.
- Verify the Equalizer in the Sound menu.
- Select any of the Smart settings in the menu.

Sound delay when A HTS-DVD device is connected
- See the user manual of the HTS-DVD device to adjust the audio sync delay.
 If you cannot set A delay, switch off HD Natural Motion in the Picture > Perfect Pixel HD menu. See section **5.3.3 Picture settings**.

HDMI connections

Trouble with devices connected with HDMI
- The HDMI - HDCP procedure might take a few seconds before the TV shows the picture from a device.
- If the TV does not recognise the device and the screen shows no picture, try switching from one device to another and back again to restart the HDCP procedure.
- If sound interruptions occur persistently, see the user manual of the device to verify the output settings. If that does not help, connect an additional audio cable.
- If a DVI to HDMI adaptor is used, verify if an additional audio connection is in place to complete the DVI connection.
- HDMI with EasyLink does not work
 - Verify if the connected device supports the HDMI CEC standard. See the user manual that comes with the device.
 - Verify if the HDMI cable is properly connected.
 - Verify if Easylink is activated in the Setup, Installation, Preferences menu.
 - Ensure that your HDMI CEC audio devices are properly set up. See the user manual that comes with your audio device.

USB connection

The TV does not show the USB device content
- Set your device (camera) to 'Mass Storage Class' compliant.
- The USB device may need specific driver software. Unfortunately this software cannot be downloaded to your TV.

I cannot see my files in the Multimedia menu.
- Not all audio and picture files are supported. See section **8 Technical data**.

Photo and music files do not playback smoothly
- The transfer performance of the USB device limits the transfer rate.

Personal computer

The PC display on my TV is not stable or is not synchronised
- Verify if the correct resolution mode is selected on your PC. See section **8 Technical data**.

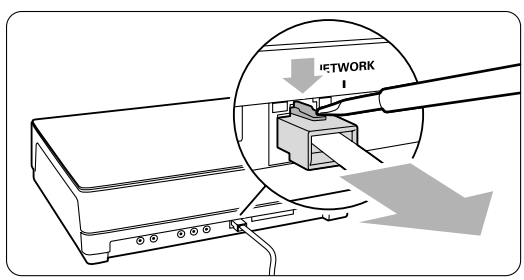
I cannot find my PC files on my PC
- Verify if files have been added in the folder.
- Not all file formats are supported. See section **8 Technical data**.

PC files are not shown in the PC network menu
- You have to set the PC media server to share files with the TV. See section **7.7.2 Set up a PC network connection**.

PC files do not play
- See section 8 Technical data for supported file formats.

Unplug the network cable

To unplug the network cable from the TV hub, use a pen or screwdriver to push down the security clip.



If your problem is not solved
Switch your TV off and on again, that may help. If not, call our Consumer Care or consult our website www.philips.com/support.

Find the Consumer Care telephone numbers on the back cover of this manual.

Please, have the TV Model and Product Number ready before you call.
You can find these numbers on the packaging label or on the typelabel on the back and bottom of the TV hub.

Warning
Never try to repair the TV yourself.

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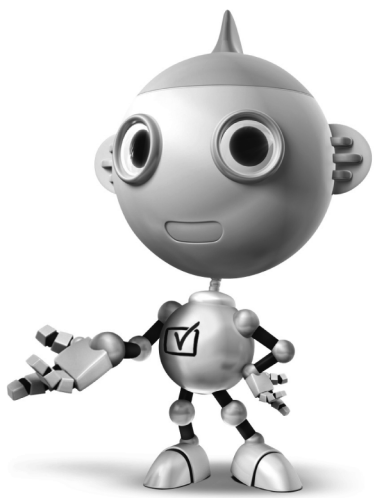
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Information about how to re-tune your TV during the digital TV switchover.

Keep this user manual safe - you'll need it.





Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see the next page to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at www.digitaluk.co.uk).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tuner your TV in order to continue receiving your existing TV channels, and also to pick up new ones.

get set for digital

Digital UK, the body leading the digital TV switch-over, will advise you when you need to re-tuner during the switchover.
If you choose to connect your TV to satellite or cable with a digital box then it will no be affected by switchover, and you won't need to re-tune.

If you have any questions, please contact your equipment supplier or call Digital UK on ... 0845 6 50 50 50 or visit www.digitaluk.co.uk

How to re-tune:

To find out how to re-tune your TV, check this user manual for details.
Go to section 6.1 Automatic installation and go to Step 4 Install TV and radio channels.

If you do not re-tune your channels when advised to do so by Digital UK, you may lose some or all of your channels until you do re-tune. You should re-tune your TV every few months to check for any new channels.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

When does switchover happen?

* Copeland switches on October 17, 2007

The exact date you switch depends on the transmitter you are served by. To check when you switch, go to Digital UK's postcode checker on www.digitaluk.co.uk. Check your ITV news service or look at Teletext page 106 to see what TV region you're in.



Visit us at **digitaluk.co.uk**
Call us on **0845 6 50 50 50***

* Calls charged at BT rate of 3p pr minute daytime and 1p per minute evenings and weekends. Rates may vary for calls from non-BT lines.

Contact information

Type no.

Product no.



België / Belgique
078 250 145 €0.06/min

Danmark
3525 8759 Local

Deutschland
01803 386 852 €0.09/min

France
0821 611 655 €0.09/min

ΕΛΛΑΣ
0 0800 3122 1280 Δωρεάν

España
902 888 784 €0.10/min

Ireland
01 601 1777 Local

Italia
8403 20086 €0.08/min

Luxembourg
40 6661 5644 Locale

Nederland
0900 8407 €0.10/min

Norge
2270 8111 Local

Österreich
0810 000205 €0.07/min

Portugal
2 1359 1442 Local

Schweiz / Suisse / Svizzera
0844 800 544 Local

Svenska
08 5792 9100 Local

Suomi
09 2311 3415 Local

United Kingdom
0870 900 9070 Local

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